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U. S. Department of Agriculture

# BUTZER'S SEEDS

THE KIND  
THAT GROW  
"YOU CAN'T  
KEEP THEM  
IN THE  
GROUND"

VEGETABLE  
SEED TRIALS  
HORTICULTURE

JAN 31 1933

*J. J. BUTZER*

186 FIRST ST., PORTLAND, ORE.



# TO MY FRIENDS

It is always a pleasure to us when our annual catalog is ready for mailing, and to review our records for the past year and find on our books hundreds of familiar names, that indicate years of pleasant business relations. It is also a pleasure to anticipate with each new catalog the addition of many new customers on our list. It will be our endeavor, as it has been for over a quarter of a century to care for each order we receive in such a manner that business will result with satisfaction for both our customers and ourselves.

## BUSINESS INSTRUCTIONS

### What We Do and What You Should Do

**ORDER NOW**—in January or February if possible before the spring rush begins. March and April are our busy months and our full force works day and night at high speed. Now to help both you and us we will allow a ten per cent discount on all orders of \$1.00 or more in one order (except collections, which are net), that are received up to March the first. Every order filled during January and February helps us just that much and we are passing this on to you.

**EARLY ORDERING.**—It will be helpful to our customers, as well as ourselves, to have orders placed early. Our policy is to make prompt shipments, but this is impossible as the busy season reaches its height. If your order is received late we may be sold out, as in case of shortage of crops, with no more stock obtainable. Send your order early; we will do the rest.

**SEND CASH WITH ORDER**—Remittances may be made by Money Order, Draft, Currency, or Stamps. We will accept any reasonable amount of stamps the same as cash, but we prefer to have 5, 10, 15 and 25 cent stamps. Be sure you register your letters if they contain cash. Money orders are the most economical and practical means of remitting.

**RETURNING MONEY**—If we cannot fill your order for any item we will at once return the money sent for same. We will not keep your money without adequate returns to you, send you due bill or substitute something you do not want.

**HOW TO ORDER**—Fill out the order sheet enclosed herewith, writing your name and address very plainly. If you have lost our order blank any kind of paper will do. Just be sure you write your name and address plainly. We'll take care of the order.

**PREPAY STATIONS**—When you send in orders to go by freight or express, be sure you send extra money to pay the transportation charges, if your station is a prepay point, which is always the case where there is no regular agent. If you send more than enough, we will refund it as soon as we get the prepay bill. If not enough, we will write for the balance and expect you to remit promptly.

**CORRESPONDENCE**—We try to give prompt attention to all proper letters of inquiry, etc., but ask, as a favor, that all questions be stated clearly and briefly, and not on order sheets.

**THIS IS OUR SILENT SALESMAN**—He calls on you once or perhaps twice. We know you are always pleased to see him—he is sent out to make sales. If you want him to call again, favor him with an order. We know he has something you will want and he also gives you a lot of information.

### OUR TERMS ARE STRICTLY CASH WITH THE ORDER

We do not send C. O. D., as the cost of collecting return charges is quite an unnecessary item of expense and the prices being given, we can conceive of no necessity to warrant goods being so sent.

### NAME AND ADDRESS SHOULD ALWAYS BE GIVEN

Frequently we receive unsigned letters. Sometimes they contain money and orders. Sometimes, too, letters are received in which the name of the town is left out and the postmark is blurred. We cannot fill orders unless we know the name and address of the buyer. The easiest way for you is to use our order sheet, filling in the blanks.

**MARKET-GARDENERS** are requested to send us a list of the vegetable seeds they intend purchasing. We shall be glad to submit low prices on them. Market-gardeners who purchase seed in large quantities are entitled to a reduction in accordance with the quantity bought. Write us fully and we shall be very glad to reply and give prices.

### Our Guarantee

### On Nursery Stock

All goods are guaranteed to reach you in good condition; mistakes, if made, will be promptly rectified. Accept shipment, examine and count on receipt and notify us at once should there be any errors, and the carrier as well, of any damaged stock. This guarantee not good unless above requirements are complied with. We do not guarantee continued growth. Remember, a tree, shrub or plant is a living organism, as much as a cow, horse or man. It breathes, drinks and feeds, and is liable to attacks of disease and insects. At prices we sell, it is impossible for us to guarantee growth or to be responsible for stock after delivery to our customers in good condition.

### GUARANTEE

Seeds of the best quality are apt to fail through improper treatment by sowing the seed too deep or too shallow, in too wet or too dry soil. They differ greatly as to the temperature required for germination. Some will germinate rapidly at a certain temperature, while others, if sown under the same conditions, are apt to decay, and for all these reasons it is impractical to guarantee seeds. I give no warranty, expressed or implied, as to description, quality, productiveness, or any other matter, of any seeds, bulbs or plants sent out, and will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned.

J. J. BUTZER.

# Yes

We Never Went Out of Business  
Never Had a Successor  
Never Were Absorbed or Merged

# Since 1904



LIST OF  
SELECT STRAINS  
OF

BUTZER'S

V

VEGETABLE  
SEED

Notice in Reference  
to Varieties

Modern varieties of vegetables are in a great many cases selections and highly improved strains of older and inferior types. These improved strains are stable to a certain degree only, and considerable care is entailed, in the growing of high-grade seeds, to keep these types up to present standard and to improve on them.

We would point out, therefore, that under conditions of soil and season not altogether favorable, varieties may vary from the descriptions in these pages, especially as regards earli-

ness or lateness of season, type and keeping quality.

The descriptions are intended to serve as a guide only, in the selection of sorts likely to prove most suitable for purposes required.

GARDEN COLLECTION No. 1

The amateur gardener, not familiar with the different kinds, will find this collection a simple solution of the problem of selection. While the prices of collections are much lower than the regular list, we use only seeds of the highest quality, but being enabled to put them up during leisure time, the saving goes to the buyer. No changes will be made in the assortment. Orders can be filled immediately on receipt.

No. 1 Collection Contains One Package Each of the **50¢**  
Following Delivered to You by Mail Postpaid for

- 1 Pkt. Beet—Detroit Dark Red
- 1 " Beans—Burpee's Stringless
- 1 " Carrot—Chantney
- 1 " Cucumber—Long Green
- 1 " Lettuce—New York
- 1 " Peas—Blue Bantam
- 1 " Nasturtium—Tall Mixed
- 1 " Radish—Crimson Giant
- 1 " Radish—Iceberg
- 1 " Swiss Chard—Lucullus

- 1 Pkt. Turnip—Purple Top White Globe
- 1 " Spinach—King of Denmark
- 1 " Parsley—Emerald
- 1 " Sweet Peas—Spencer Mixed
- 1 " Aster—Rose City Mixed

**15 Full Size Packages**  
all for  
**50c, Postpaid**

BUTZER'S "ROSE CITY"  
Sweet Pea Collection, 25 cents

This Collection contains one package each of the following—all Giant Spencers

- Blue Bird—Blue
- Fluffy Ruffles—Cream Pink
- Fiery Cross—Deep Cerise
- Austin Frederick—Lavender
- Colorado—Orange
- Huntsman—Scarlet



# BEANS DWARF OR BUSH GREEN PODDED

**Culture**—No crop responds more readily to good soil and cultivation than beans. A light, rich, well-drained loam which was manured for the previous crop is desirable. If too rank manure is used it is apt to make the plant run too much to vine. Beans are extremely sensitive to both cold and wet, and it is useless to plant them before the ground has become dry and warm. The largest returns will result from planting in drills from two to three feet apart and leaving the plants two to six inches apart in the row. Up to the time of blossoming they should have frequent shallow cultivation, but any mutilation of the roots by cultivation after the plants come into bloom is likely to cause the blossoms to blast and so cut off the crop. The cultivation of beans should always be very shallow and it is useless to expect a crop from a field so poorly prepared.

Varieties should be selected so as to give a succession both of string and green shelled beans. The wax podded varieties will degenerate into a mixture of green wax podded plants unless there is constant attention given to the removing of any green podded plants which may appear in the seed crop, and the constant selection of plants of the highest type for stock seed. Hence it is especially important to use seed from reliable sources only.

## BURPEE'S STRINGLESS GREEN POD

The Best Green Podded Bush Bean for the Northwest, should be in every garden

This famous bean is absolutely unequalled! It combines unusual hardiness, extreme earliness, and wonderful productiveness with pods of handsome appearance and finest quality. Extra early plantings may be made to produce the earliest crop, and even with later plantings Burpee's "Stringless" is always the quickest to produce pods. By repeated plantings pods may be had in constant succession from Spring until cut off by heavy frosts in the Fall. Combined with the extra hardiness and early maturity, the pods are the finest in quality, of a rich green, very round and straight, five inches long, solidly meaty and broad—deeply saddle-backed, caused by the rounded swell of the fleshy sides. The pods are tender, brittle, and of finest flavor, always entirely stringless, even when fully matured. In a word, all planters now agree that Burpee's Stringless is absolutely unequalled! Per pkt. 10c; ½ lb. 15c; lb. 25c; 5 lbs. \$1.00, postpaid

### EXTRA EARLY RED VALENTINE

Next to Burpee's Stringless, this is the most popular of all green-podded bush beans. In this improved strain the pods are very fleshy, round and saddle-backed, with only slight strings. Bushes grow uniformly about fifteen inches in height.

Per pkt. 10c; ½ lb. 15c; lb. 25c; 5 lbs. \$1.00, postpaid

### CANADIAN WONDER

This splendid Bush Bean is the largest, most prolific of the green-podded sorts, and is entirely stringless in its early development. Come a little later than the new Stringless Green Pod, but continues in bearing throughout the season, and is excellent in shelled green.

Per pkt. 10c; ½ lb. 15c; lb. 25c; 5 lbs. \$1.00, postpaid

### IMPROVED REFUGEE, or 1000 to 1

Our strain is extra fine. True bush growth, fifteen inches in height, branching freely. The pods are nearly round, pale green, five inches long, tapering to a slender point; quite solidly fleshy, brittle, and mild in flavor, but with slight strings. Rather later than the other green-podded sorts, but extremely prolific. Very popular with canners on account of the handsome appearance of the pods when picked while quite young.

Per pkt. 10c; ½ lb. 15c; lb. 25c; 5 lbs. \$1.00, postpaid

### EARLY STRINGLESS REFUGEE

An improved stringless strain. Very hardy and extremely productive. Pods round and straight, tender, brittle, absolutely stringless and of finest quality; medium early. Great improvement over Refugee or 1,000 to 1. Excellent home or market variety as a "snap." Unsurpassed for picking or canning. Second early.

Per pkt. 10c; ½ lb. 15c; lb. 25c; 5 lbs. \$1.00, postpaid

### DWARF HORTICULTURAL

One of the best dwarf sorts for green shell beans for the home garden and market and can be used early as a green podded snap bean. The plants are very productive, compact and upright, with large leaves. The mature pods are about five to five and one-half inches in length, broad and thick curved, with splashes of bright red on yellowish ground. They become fit for use as green shelled beans early and in this condition the beans are very large, easily shelled and are about equal to the Lima in quality. Seed large, oval, plump, pale buff, splashed with deep red.

Large pkt. 10c; ½ lb. 15c; lb. 25c; 5 lbs. \$1.00, postpaid

## BROAD OR FAVA BEANS

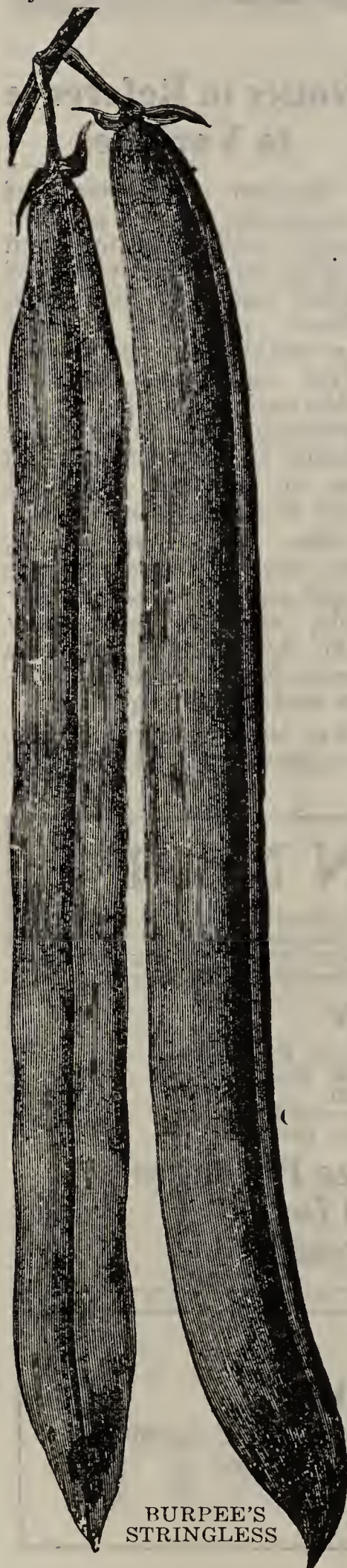
**ENGLISH or BROAD WINDSOR, or FAVA BEANS**—These beans are also known on the Pacific Coast as "Horse Beans." In Europe they are cultivated extensively for eating purposes. If shelled when young and cooked for about twenty-five minutes in boiling water with a pinch of baking soda added, they make a most delicious vegetable.

In the Willamette Valley these should be planted in the fall, November and December preferably, although they can also be planted in the early spring with good success, when the season is favorable. Seed can be planted in hills or in drills. When sown in drills, plant so that seeds are six to nine inches apart, covering three or four inches deep, and in rows thirty to thirty-six inches apart. If the tips of the plants of the Fava are cut off after the plant has flowered, the crop will set better, the pods will be larger and develop earlier, and also the attack of Aphis will be checked.

Per pkt. 10c; ½ lb. 15c; lb. 25c; 5 lbs. \$1.00, postpaid

### ADVICE

Watch for the slightest indication of mildew. When it appears spray with Sulphur. This will not only arrest any further advance of mildew, but it will fertilize the soil and destroy any germs of Fungi that may be there.



BURPEE'S  
STRINGLESS



# BEANS DWARF OR BUSH, YELLOW OR WAX PODDED

## BRITTLE WAX

Brittle Wax is most attractive, of superb quality, and conceded the "Best of All." The bushes are remarkably hardy and very prolific. The pods are handsome, round, extremely fleshy, and always stringless and tender. They measure about 7 inches in length and are slightly curved. Burpee's Brittle Wax has made a record everywhere with its superb quality, extreme earliness, and great productiveness.

Pkt. 10c; ½ lb. 15c; lb. 25c; 5 lbs. \$1.00, postpaid

## PENCIL POD BLACK WAX

One of the best round pod wax beans, both for home use and market. Bushy growth, about fifteen inches high, heavy foliage. Pods 6 to 7 inches long, round as a pencil, clear yellow, very brittle and stringless, rich mild flavor. An early sure cropper of the finest quality.

Pkt. 10c; ½ lb. 15c; lb. 25c; 5 lbs. \$1.00, postpaid

## PROLIFIC BLACK WAX

The earliest wax variety. Pods clear, light yellow, round, fleshy, tender, stringless and remain in fit condition for some time. A heavy yielder that we can recommend.

Large pkt. 10c; ½ lb. 15c; lb. 25c; 5 lbs. \$1.00, postpaid

## REFUGEE WAX

This is a favorite because of its hardy growth and enormous yield of tender, round stringless pods of excellent flavor. Plant from April until September.

Per pkt. 10c; ½ lb. 15c; lb. 25c; 5 lbs. \$1.00, postpaid

## IMPROVED GOLDEN WAX

Pods rather flat, but of good quality; four inches in length, half an inch broad, of light golden yellow; quite brittle, with only slight strings when young. Plants stiffly erect, bearing a large crop of fine pods held well above the soil.

Per pkt. 10c; ½ lb. 15c; lb. 25c; 5 lbs. \$1.00, postpaid

# Bush Lima Beans

**Culture**—Select land that is especially warm, rich and well supplied with vegetable fibre or humus. Plant as soon as the soil has become warm in the spring. Make the rows 2 feet apart and give to each plant 6 inches space in the row. A top-dressing of poultry manure, ashes, or some good fertilizer or compost around the plants will be of much benefit in hastening maturity and increasing the yield.

**Burpee's Bush Lima**—Comes absolutely true from seed. The bushes grow eighteen to twenty inches high, stout growth and always erect, yet branching so vigorously that each plant develops into a magnificent circular bush from two to three feet in diameter. It is an immense yielder, the handsome large pods being well filled with very large beans, identical in size and luscious flavor with the well-known large Pole Limas.

Per pkt. 10c; ½ lb. 15c; lb. 25c; 5 lbs. \$1.00, postpaid

**Burpee-Improved Bush Lima**—This is the finest Bush Lima that has ever been introduced. The bush is sturdy in habit and twenty to twenty-four inches high, with large leaves. It bears its beans on long spikes in very prolific clusters well out from the plant. There are from four to seven pods in each cluster and often as many as eleven. Each pod contains three, four or five beans and there are more pods containing five than there are containing three beans, so that there is an improvement of from one to two beans in each pod, and this, taken with the great number of pods borne, makes the yield enormous. In quality this bean ranks with the very best and the beans are of large size. In earliness it comes between Henderson's and Burpee's Bush, and is about a week earlier than the latter variety. This bean is bound to be the greatest, most popular Bush Lima—a continuous bearer.

Per pkt. 10c; ½ lb. 15c; lb. 25c; 5 lbs. \$1.00, postpaid

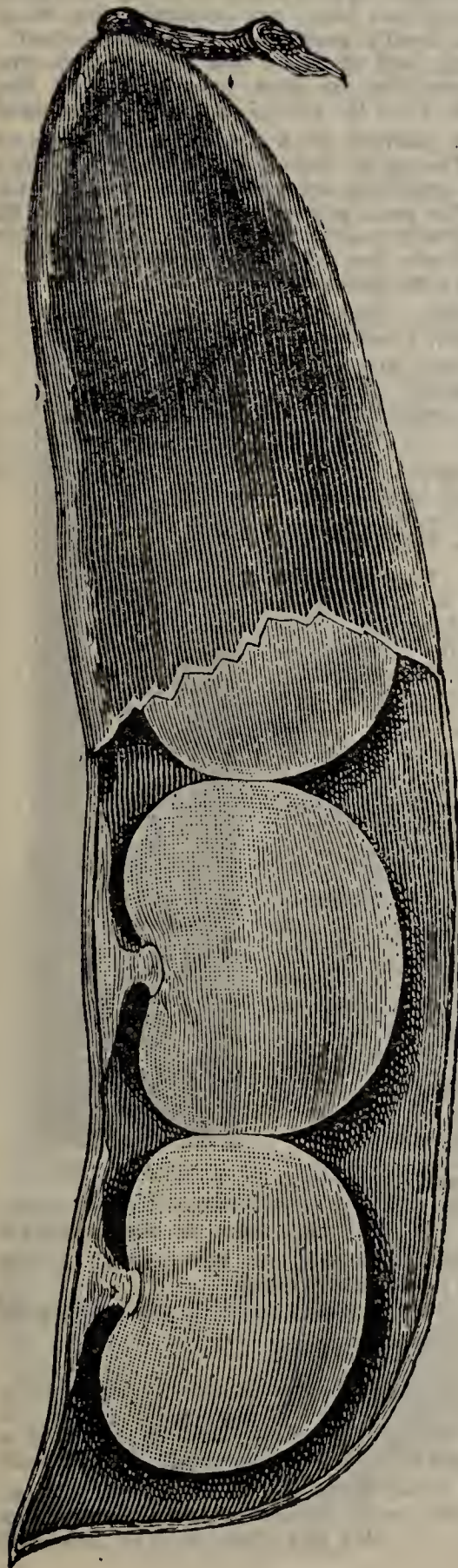
**Fordhook Bush Lima Bean**—The only stiffly erect bush form of the popular "Potato" Lima! Both pods and beans are twice the size of Dreer's Bush Lima and more than half again as large as the Challenger Pole Lima. Is fully a third heavier cropper and therefore is bound to entirely displace the Kumerle (Dreer's or Thornburn's) Bush Lima. In season it is from four to six days earlier. Per pkt. 10c; ½ lb. 15c; lb. 25c; 5 lbs. \$1, postpaid

# Pole Lima Beans

**Oregon Pole Lima**—Grows to an average of about five feet, is a strong, thrifty vine and very prolific, bearing continuously until frost, the blossoms bursting from the top shoots in long panicles, while the pods can be seen in every stage of development, to the matured beans at the bottom of the vine. Pods are well filled, having three to five large beans of the finest quality. Gather any time after full maturity.

**Oregon Pole Lima** can be planted in any garden soil as early as April or late as July. Give the same care and culture as other Beans, and are ready to use when the pods are filled and first begin to ripen. It is not necessary that they should dry on the vines, except for seed. They are at their best when the full green pods begin to turn yellow.

Per pkt. 10c; ½ lb. 15c; lb. 25c; 5 lbs. \$1.00, postpaid





# BEANS—Pole or Running

**Culture**—Pole Beans are even more sensitive to cold and wet as well as to droughts and hot winds than the dwarf varieties, but are of superior quality and productiveness. After settled warm weather set poles four to eight feet long and slanting slightly toward the north, in rows four feet apart and extending north and south, the poles being three feet apart in the row. Set in this way, the vines climb better and the pods are straighter and more easily seen. Around each stake plant five to eight beans two inches deep, and when well started thin to four plants. It is a natural habit of all vines to climb around a pole always in one direction, and they will not do well if an attempt is made to train them to run in the opposite direction. Another plan is to plant in rows thickly enough so that there will be one plant to eight or ten inches. Set posts five feet high firmly at each end of the rows and drive stakes made of 2x2 lumber at intervals of about sixteen feet along the rows. Stretch a wire, size No. 10 or 12, between the posts along each row, and fasten it to the tops of the stakes with wire staples; run a light wire or twine along the bottom about six inches from the ground, fastening likewise to the posts and stakes. Between these two horizontal wires stretch a wire or twine perpendicularly wherever there is a plant; the vines will run up these until they reach the top wire, when they will care for themselves. Another way is to omit the bottom wire and stick small stake two to six inches in the soil and fasten to top wire.

## GREEN PODDED VARIETIES

### Kentucky Wonder is the best Pole Bean for the West

Often sold as Asparagus Beans

**Old Homestead, or "Kentucky Wonder"**—See natural size of pod, engraved from a photograph. The pods seven to nine inches long, are so fleshy that they are greater in width than in breadth, being deeply creased or "saddle-backed". They are solidly meaty, stringless when young, and of finest quality. If pods are gathered as they mature, the vines will continue to bear to the end of the season.

Per pkt. 10c; ½ lb. 15c; lb. 25c; 5 lbs. \$1.00, postpaid

**Burger's Green-Pod Stringless**—This is earlier than Old Homestead and covers a longer season of productiveness. The pods, borne in clusters, average six to eight inches in length, are uniformly straight, of a rich dark green, and so meaty as to be really "saddle-backed." The pods are as entirely stringless as the popular Burpee's Stringless Green-Pod Bush Bean; they are equally tender and of similar sweet, mild flavor. The dry beans are of a pearly whiteness.

Per pkt. 10c; ½ lb. 15c; lb. 25c; 5 lbs. \$1.00, postpaid

**Chinese Yard-Long (Pole Beans)**—Brown seed, an attractive and curious variety. The pods often grow to be nearly a yard long. The whole pod and beans are crisp, tender and with a delicious asparagus flavor, rivaling almost any of the little podded beans when cooked.

Pkt. 10c

**Horticultural, Cranberry or Wren's Egg**—A popular old variety for either snapshorts or dry shell beans, especially adapted for short seasons and cool locations.

Per pkt. 10c; lb. 30c, postpaid

**Oregon Giant Greenpod (Dickenson's Yount)**—The large fleshy pods 10 to 12 inches in length are free from all stringiness and are tender, crisp and delicious. The size, splendid quality and rich flavor make this one of the most desirable beans for home gardens and for canning.

Per pkt. 15c; lb. 40c

**"Lazy Wife's"**—The pods, of medium dark green color, are produced in great abundance, and measure from four and a half to six inches in length. They are broad and thick; fleshy and entirely stringless. The pods retain their rich, tender, and stringless qualities until nearly ripe, and at all stages are peculiarly luscious. Each pod contains from six to eight round, white beans, which make excellent winter shell beans. Per pkt. 10c; lb. 30c, postpaid

**Scarlet Runner**—In northern locations where the summers are cool and short, this takes the place of the Large Lima Beans. Plants are of strong quick growth, bearing large sprays of bright scarlet pea-like flowers. When fully ripened, the dry beans are of bright scarlet, heavily blotched with purple. Pkt. 10c; lb. 30c, postpaid

**White Creaseback**—A popular early green podded pole bean for snapshorts; of rapid growth and very productive. Pods grow in clusters and are from five to six inches in length, perfectly round, being deeply creased or "saddle-backed." They are solidly fleshy, entirely stringless, and of fine quality. The dry seed is pure white and excellent for winter use.

Per pkt. 10c; lb. 30c, postpaid

**White Dutch Case Knife**—Bears large flat pods early in the season. Being white-seeded, it is excellent to grow dry shell beans for winter.

Per pkt. 10c; lb. 30c, postpaid

## WAX POD POLE VARIETIES

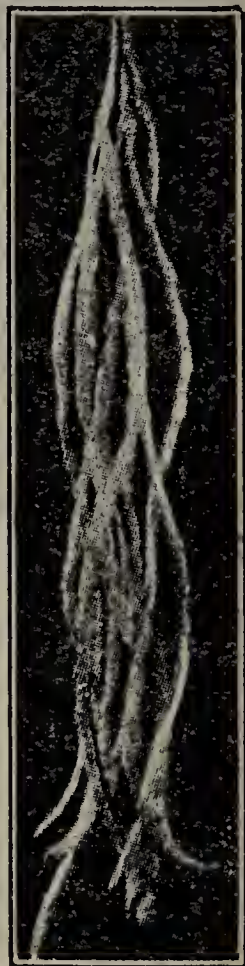
**Kentucky Wonder Wax Beans**—In saying that this bean is even more prolific than its green podded namesake, we do not overstep the bounds of truth. It commences to bear when scarcely higher than the average bush variety. The seed is brown.

Price 10c per pkt; ½ lb. 15c; 30c per lb., postpaid

**Golden Cluster Wax**—This variety of Pole Bean is noted for its great productiveness, and furnishes delicious yellow pods from about the middle of July until the vines are destroyed by frost.

Per pkt. 10c; lb. 25c, postpaid

KENTUCKY WONDER



YARD LONG



## GARDEN BEETS

**Culture**—The best results are obtained on a deep rich sandy loam. If wanted very early, sow such sorts as Crosby's Egyptian or Detroit Dark red in hotbeds and transplant, cutting off the outer leaves. For general crop, sow in freshly prepared soil as soon as the ground will permit, in rows eighteen inches apart covering about an inch deep and pressing the soil firmly over the seed. When the plants are well established thin out to four inches apart in the row. For winter use the turnip varieties may be sown in June, so as to mature late in the season; the roots are stored in a cellar and covered with sand or sandy soil to prevent wilting; or they may be kept outdoors in pits such as are used for apples and potatoes. One or two ounces, or single packets of two or three sorts will give a good supply for a large family.

**Detroit Dark Red**—Receives nothing but praise everywhere—It is rather astounding how, despite the many new beets introduced from time to time, that the old Reliable Detroit gains in favor instead of waning.

The Detroit is one of the best of the dark red turnip beets for main crop. See illustration. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 60c, postpaid.

**Bastain's Half-Long Blood**—The roots are shaped like an olive, of large size and have dark red flesh which retains its tenderness until late in the season.

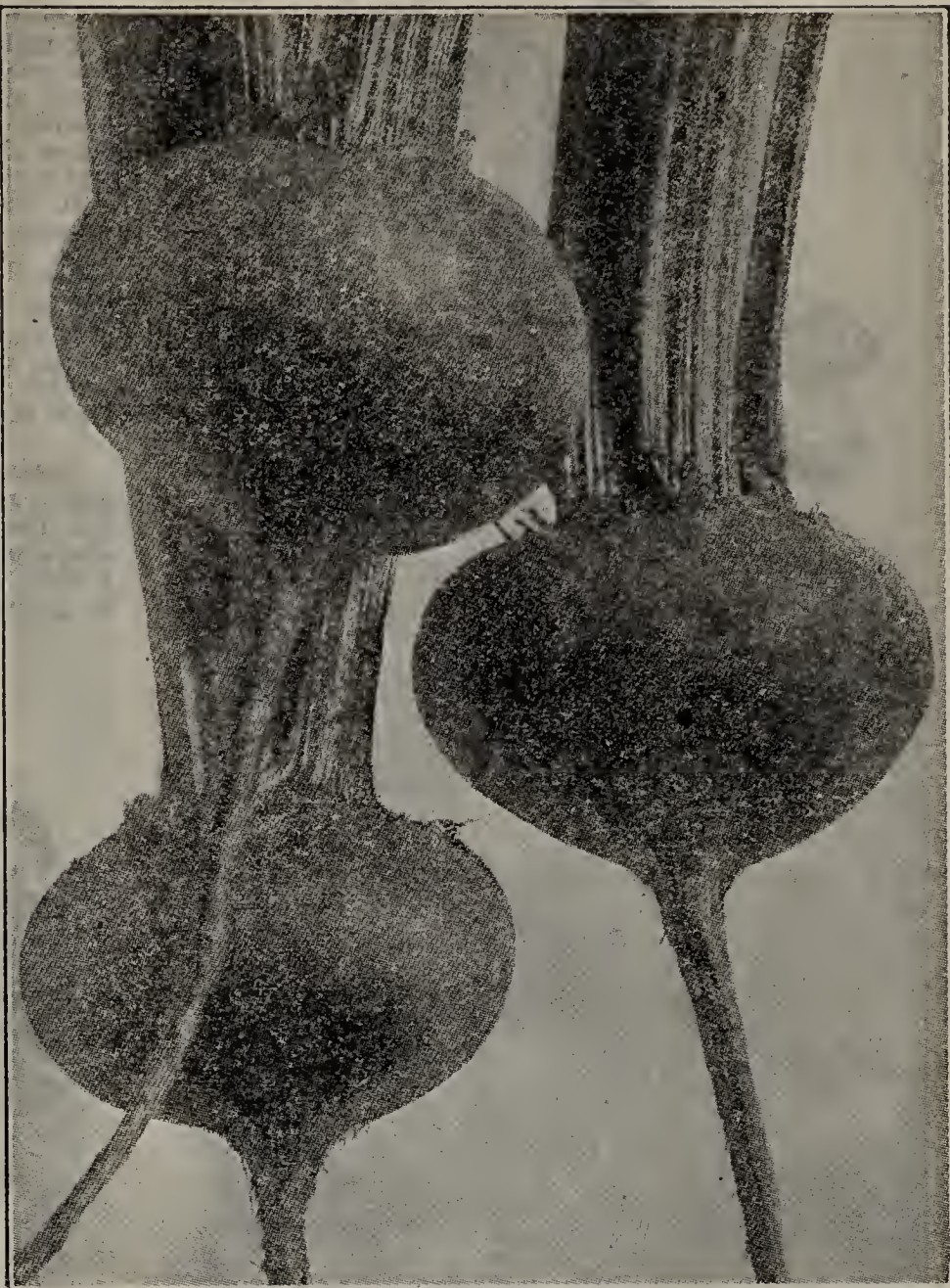
Per pkt. 5c; oz. 15c,  $\frac{1}{4}$  lb. 50c, postpaid

**Extra Early Egyptian**—Grows extra quickly, producing flat smooth turnip roots averaging two inches in diameter. Per pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 25c, lb. 75c, postpaid.

**Crosby's Egyptian**—Roots are smooth and round in form. They are of finer quality, combined with the same extra maturity. Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; per lb. 75c, postpaid.

**Long Smooth Blood Red**—Roots long and slender, penetrating the soil deeply, but seldom growing more than two inches in diameter. Rather late in maturing, but are excellent keepers when stored for winter use.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c, postpaid



**DETROIT DARK RED—THE BEET FOR THE NORTHWEST**

**Early Wonder**—This variety is a selection of Crosby Egyptian. We believe it to be one of the earliest and best turnip shaped beets grown. It is a little earlier than Crosby Egyptian and is so uniform in growth that the crop can be harvested practically at one time, yielding the land early and quickly for a second crop. This variety is ready for bunching 73 days after planting the seed.

Prices: Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 60c, postpaid

## Mangel Wurzels or Stock Beets

**Danish Sludstrup**—The Danish Government encourages the growing of root crops by offering certificates of merit to growers who select and produce sorts which are of distinctive value. Sludstrup is considered the best of all Mangels, having been awarded first-class certificate. In color it is reddish yellow and of a distinct type. It contains the largest per cent of nutriment found in any sort. It is very hardy, grows well above ground and is easily pulled.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 50c

**Giant Half-Sugar**—This magnificent Sugar Beet, while giving nearly as large a yield of easily grown and harvested roots as a crop of Mangels, supplies a food of very much higher nutritive value, the roots for feeding purposes being really more valuable, pound for pound, than those of the very best strains of Sugar Beet, and the yield under equally favorable conditions is more than double. The roots grow partly out of the ground and because of this and their shape the crop can be harvested and stored at less expense than any other root crop. We are certain that every one who plants this variety and grows it with care will be much pleased. Every farmer should try it.

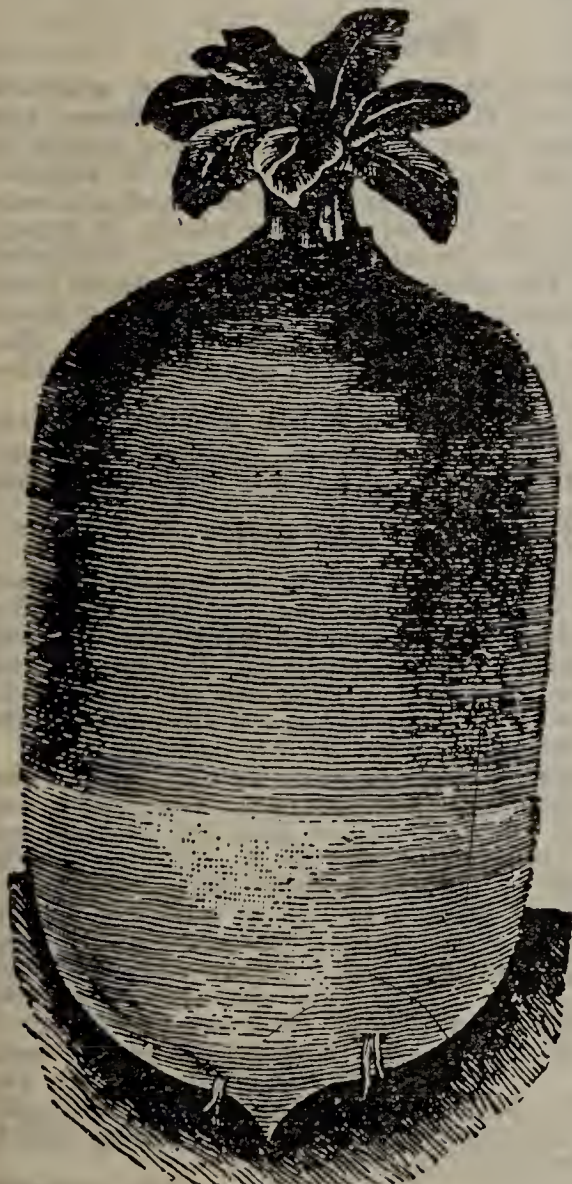
Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 50c, postpaid

**Golden Tankard**—A smooth yellow-fleshed mangel, the roots are of large diameter, tapering quickly at the bottom, which is quite broad, with only a small tap-root. It grows largely above the soil and is easily harvested. It yields an enormous bulk on good land, and can be grown closely in rows. This is decidedly the best of all these four mangels for stock feeding.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 50c, postpaid

**Mammoth Long Red**—The largest of all the Mangels and the heaviest cropper. Skin is red; flesh white, zoned with red. This variety produces a larger amount of good feed than any other Beet, and is recommended as superior to all others.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 50c, postpaid



**Danish Sludstrup**





"LUCULLUS,"—  
THE NEW  
SWISS CHARD.



## BROCCOLI

**Sprouting (True Calabrese)**—This is distinctly different from the type of Broccoli which forms large white heads like Cauliflower. This type, long a favorite in Europe, has recently been introduced into this country from Italy. The plants are hardy and rapid growing, and produce a large central or main head in the center of the plant in about ninety to one hundred and twenty days. When this head is removed the plant sends out lateral shoots or "sprouts" on stems four to six inches long, much smaller in size than the main or central head. When this second crop is harvested the plant again sends out another crop of these miniature heads. Frequently as many as five or six cuttings can be obtained from one plant. The smaller heads produced by the plant after the main head is removed are fully as desirable as the main head. They are very tender and the stems (which are as tender as the heads) when served in the same way as Asparagus form a very tasty and nourishing dish.

**Italian True Sprouting (True Calabrese)**—Pkt. 10c; oz. 75c;  $\frac{1}{4}$  lb. \$2.00.

**CABBAGE ROOT MAGGOT**  
Does Not Bother Growers Who Use  
**A. B. C. PLANT PROTECTORS**

See Page 75

## Swiss Chard or "Spinach Beets"

**Lucullus**—The plants grow to a height of two to two and one-half feet. The stalks are as thick and broad as those of rhubarb, being one and one-half inches broad, heavily ribbed and from ten to twelve inches long below the leaf. These stalks are delicious when cooked and served in the same manner as asparagus.

In the old type of Swiss Chard the leaf portion is smooth, broad and rounded at the upper end; in the new Lucullus the leaves are larger and sharply pointed at the top, while the texture is heavily crumpled or "savoyed", more crisply tender and of finer flavor. The leafy portion of the foliage is cooked and served in the same manner as spinach. The leaves and stalks served as separate vegetables afford two distinct dishes from the same plant at one time.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00

**Large-Ribbed White**—This variety does not make edible roots like the regular garden beets, but is grown for the broad white leaf-stalks, which are bunched and cooked in the same manner as asparagus, and make a delicious summer vegetable. The young leaves may be gathered also and cooked like spinach.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c



## Broccoli

Should be treated the same as cauliflower, which it resembles. In fact, it is practically a cauliflower, but grows larger and taller and is hardier and easier to grow. It requires two months more time to mature, which it does best in cool weather. Plant and cultivate the same as cabbage or kale and give plenty of water.

**St. Valentine**—The finest of all Broccoli. Imported from England. This grand new strain introduced from England is a sure header of immense size and finest quality, and is ready for market in February. The large, solid, handsome, white heads remain in good condition longer than other varieties.

Per pkt. 10c; oz. 80c

**Large White French**—A valuable variety with large, white heads, firm and of good flavor. Pkt. 5c; oz. 50c

## Brussels Sprouts

The plants are very hardy and grow from 2 to 3 feet high, bearing a large mass of leaves at the top. The sides of the main stem are covered with three or four dozen small cabbage heads, which are broken off and cooked the same as cabbage. The sprouts mature in succession. Sow early so as to have well-grown plants by fall. Cultivate the same as for cabbage.

**Burpee's Danish-Prize**—A very fine strain. The plants are of strong robust growth. The stalks are large, thick and close-joined, so that the sprouts set thickly on the stalk. The sprouts develop for nearly the entire height of the stalk about the same time—consequently a very large crop can be gathered. Even the sprouts formed at the base of the stalk are tightly folded; they are quite as fine and solid as those higher up.

Per pkt. 10c;  $\frac{1}{2}$  oz. 20c

**Long Island Improved**—The finest strain of "Sprouts" grown. We offer the choicest Long Island grown seed.

Per pkt. 10c; oz. 35c

**Perfection**—The plants grow about two feet in height and the stems are thickly set with the sprouts which grow one or two inches in diameter.

Per pkt. 5c; oz. 25c, postpaid





## CHIVES—Schnittlauch

Chives are perfectly hardy perennial plants of the onion type, and are grown exclusively for their small leaves, which are produced freely very early in the Spring, for giving a mild onion flavor to various dishes. They are used especially in flavoring the small German sausages. When planted in small clumps in any common garden soil, they will grow rapidly and in time increase so as to render division necessary. The tops appear early in the Spring, and can be shorn off close to the ground as needed. If not allowed to flower, they will produce much longer.

Per bunch, postpaid, 15c

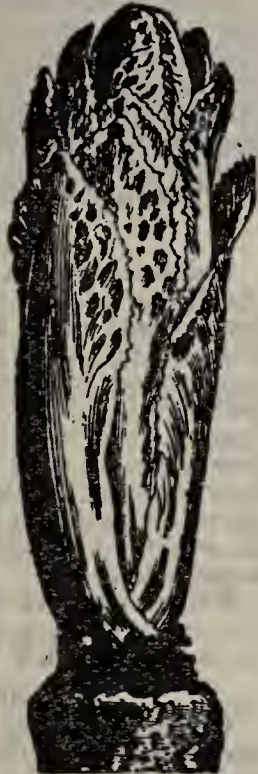
## CHICORY

Large-Rooted or Coffee—Per pkt. 5c; oz. 20c; ¼ lb. 45c; per lb. \$1.60.

## FRENCH ENDIVE

or Witloof Chicory. French Endive is used principally as a winter salad. Sow the seed in the open ground not later than June. Lift the roots in the fall. When wanted for forcing trim to an even length of 6 inches. Pack upright in a box in rows and a two-inch layer of soil at the bottom. Loosely cover with 6 inches of sand or light earth. After watering thoroughly, place the box near the heater of the cellar and keep moderately moist until the sprouts push through.

Pkt. 10c; oz. 25c; 4 ozs. 80c. postpaid.



## CHERVIL

Curled Chervil—Beautifully curled and crisp.

Per pkt. 10c; oz. 25c; ¼ lb. 75c

## CRESS

Fine Curled Peppergrass—Quick growing, finely cut and feathery, like a good parsley; growth dwarf and compact; ornamental, crisp and pungent; very refreshing.

Pkt. 5c; oz. 15c; ¼ lb. 45c; lb. \$1.50, postpaid

Water Cress—Highly esteemed as a salad during the Spring and Fall, also used as a garnish for meats during the Winter. Seed may be started readily in pans or boxes of very moist earth, and the young plants transplanted to shallow water.

Per pkt. 10c; oz. 45c; ¼ lb. \$1.50

## CORN SALAD (Feldsalat)

Vetticost, or Lamb's Lettuce—A delicious salad. The best variety cultivated. The proper time for sowing is in the Fall, but sown early in Spring, in rows nine to twelve inches apart, it is fit for use in from six to eight weeks. Cover with hay or straw to protect through the Winter. One ounce of seed to 15 square feet.

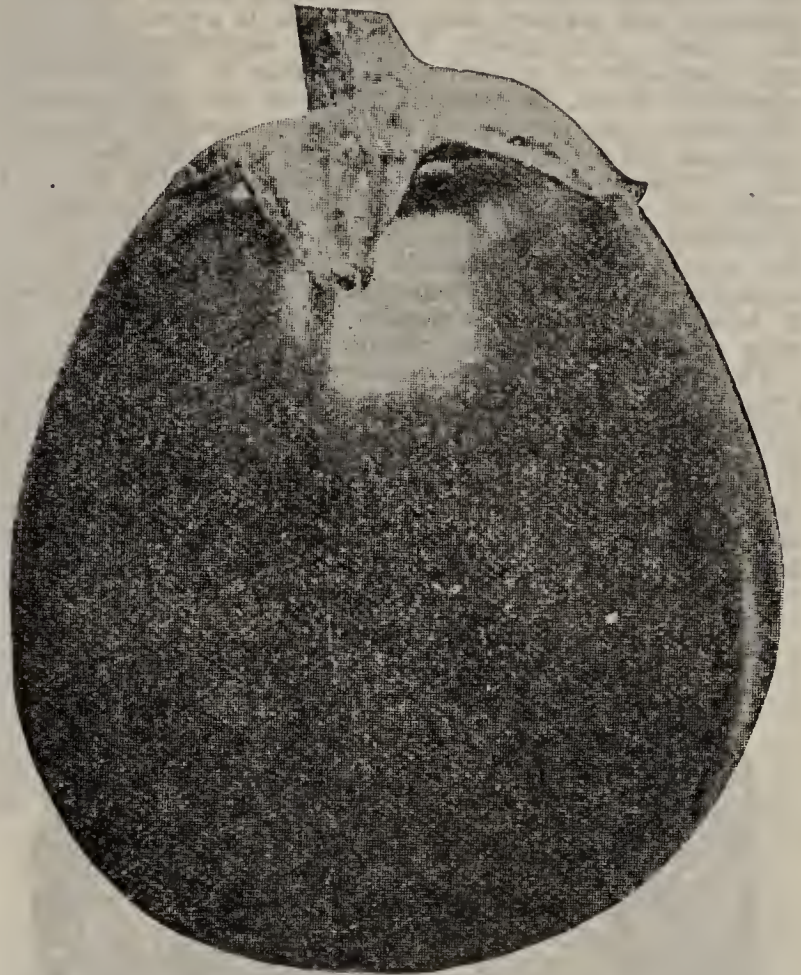
Per pkt. 5c; oz. 15c, postpaid

## DANDELION

Dandelion (Lowenzahn; Dent-de-Lion)—Cultivated for spring greens, is fast gaining favor. Our thick or cabbage-leaved variety is best; unlike common sorts, almost double usual size. Pkt. 10c; ½ oz. 40c; oz. 75c

## EGG PLANT

Every garden should have a few Egg Plant plants. These are easily grown and bear a good crop with little attention. Egg Plants, sliced and fried, are delicious and would be much more popular if better known.



Black Beauty—Very early, the fruit being ready for market two weeks before any other variety. Color very fine, being a purplish black. A good variety for a main crop for market. Per pkt. 10c; ½ oz. 40c; per oz. 70c; 2 ozs. \$1.15; ¼ lb. \$2.00; per lb. \$7.00.

## ENDIVE



Endive is one of the best and most wholesome salads for fall and winter use. Sow in shallow drills in April for early use or for late use in June or July. When 2 or 3 inches high, transplant into good ground or thin out to 1 foot apart. When nearly full grown, and before they are fit for the table, they must be bleached. This is done by gathering the leaves together and tying with yarn or bass to exclude the light and air from the inner leaves, which must be done when quite dry, or they will rot.

Green Curled—Leaves finely cut or lacinated.

Per pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25

White Curled—Does not need blanching, the midribs being naturally of a pale golden-yellow, and the finely cut and curled leaves almost white.

Per pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.50

Batavian—Large heads of broad, thick leaves, which can be blanched as a salad or make excellent cooked greens.

Per pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.50



## CABBAGE

**Culture**—The requisites for complete success are: First, good seed; in this crop the quality of the seed used is of the greatest importance; no satisfactory results can possibly be obtained when poor seed is planted. Second, rich, well prepared ground. A heavy, moist and rich loam is most suitable. Third, frequent and thorough cultivation. The ground should be highly manured and worked deep. Cabbage is grown all over the country and specific directions regarding the time and methods of planting applicable to all localities cannot be given. In general, north of the 40th parallel the early sorts should be sown very early in hotbeds, hardened off by gradually exposing them to the night air and transplanted as early as the ground is in good condition, setting eighteen to thirty-six inches apart, according to size and variety. South of the 40th parallel, sow about the middle of September, or later, according to latitude, transplanting into cold frames if necessary to keep through winter and setting in open ground as early as possible in the spring.

The late autumn and winter varieties may be sown from the middle to the last of spring and transplanted when four to six inches high. If the weather and soil is dry, the late sowing should be shaded and watered in order to hasten germination, but it is important that the plants should not be shaded or crowded in the seed bed, or they will run up weak and slender and will not endure transplanting well.



EARLY JERSEY WAKEFIELD

**Early Jersey Wakefield**—The best first-early oblong-headed cabbage. The heads are uniformly hard and solid. They are pyramidal in form, generally pointed at the end, with but few outside leaves. The outer leaves are unusually thick and heavy, and it is thereby enabled to stand more cold weather without injury when carried through the winter.

Per pkt. 5c; oz. 20c; ¼ lb. 60c; lb. \$2.00, postpaid

**Extra Early Express**—About ten days earlier than Early Wakefield; heads small, heart-shaped and very solid; having but few outer leaves plants can be set very close. Per pkt. 5c; oz. 30c; ¼ lb. \$1.00, postpaid

**Early Winnigstadt**—This suffers less from insects than any other early cabbage. The heads are of the same size as the Jersey Wakefield.

Per pkt. 5c; oz. 25c, postpaid

**All Head Early (The Faultless)**—As early as most of the early summer cabbages; the deep, flat heads are remarkably solid and uniform in color as well as in shape and size; makes a fine winter cabbage if sown late. Splendid sort for kraut making.

Per pkt. 5c; oz. 25c; ¼ lb. 75c, postpaid

**Early Flat Dutch**—Earlier and heads somewhat smaller than Late Flat Dutch; a good short stemmed early.

Pkt. 5c; oz. 30c; ¼ lb. \$1.00

**Baby Head**—Of unusual merit. The beautiful little round heads are "solid as a rock" and weigh from three to six pounds, just a right size for family use.

Pkt. 10c; oz. 50c

**Glory of Enkhuizen**—Excellent medium early, short-stemmed variety, maturing ten days earlier than Danish Round Head. Heads large, round, very solid, with few outer leaves. One of the most satisfactory for kraut making.

Per pkt. 5c; oz. 30c; ¼ lb. 90c

**For Cabbage Worms Use SLUG SHOT**



### Copenhagen Market

**Copenhagen Market**—It is undoubtedly without a rival as the finest large round-headed early Cabbage in cultivation. The type is thoroughly fixed, the heads maturing all at the same time—(this being a great consideration to Market Gardeners, entailing less labor in harvesting the crop and allows the ground to be cleared at the first cutting). The heads average about ten pounds each in weight, and very solid, with small core and of fine quality. The plant is short-stemmed, the heads being produced almost on the ground level. The leaves are light green, rather small saucer-shaped, and always tightly folded. The plants, therefore, can be set closer than usual with varieties of similar size. Per pkt. 5c; oz. 25c, postpaid; ¼ lb. 75c; per lb. \$2.50

### GOLDEN ACRE

**Golden Acre**—A very fine new sort from Denmark—the home of fine Cabbages. It is very uniform, almost every head could be cut at the same time. The originator states that Golden Acre matures quicker than any variety known to him. The head is of medium size, quite round, and is surrounded by a few small outer leaves. It is very firm and fully equal to any of the late sorts in this respect. On account of its hardness it will stand in the field for a month or more without bursting and can be shipped long distances and arrive in excellent condition. Don't fail to give the Golden Acre a trial.

Price: per pkt. 10c; 1 oz. 40c; ¼ lb. \$1.10, postpaid

### SAVOY CABBAGE

#### or CURLED LEAF

Characterized by dark green, heavily crimped, curled, or savoyed leaves. The flavor is far superior to other sorts, especially after being touched by frost. In demand as a Winter Cabbage.



**Perfection Drumhead Savoy Wirsing**—This is the hardest heading and best all-around Savoy. Plants are of strong growth, having only a moderate amount of outer foliage growing closely about the large solid round heads. Heads beautifully blanching and of the finest flavor. Per pkt. 5c; oz. 20c; ¼ lb. 60c; lb. \$2.00



# LATE or WINTER CABBAGE



## RED CABBAGE

Red Cabbage may be used in ways similar to ordinary Cabbage, or may be prepared in various special ways. Its red color makes it particularly desirable for cole slaw.

### DANISH STONEHEAD OR ROUND RED

**Danish Stonehead or Round Red**—This splendid novelty is a recent introduction. It produces round or ball shaped heads of great solidity and unusually dark purplish color, and this rich coloring extends to the center of the head, showing only a small portion of white when cutting across the veins and tissue. The plants are of strong, compact growth, producing heads uniform in size and shape, from 6 to 8 inches in diameter. It is the best keeper of any of the Red Cabbages. Most desirable for the housewife in slicing for slaws, salads, etc.

Per pkt. 10c; oz. 35c;  $\frac{1}{4}$  lb. \$1.00; lb. \$3.50, postpaid

**Mammoth Rock Red**—While late in maturing, this is the largest heading of all deep red varieties. In good soil the heads will average ten pounds. Per pkt. 5c; oz. 25c

## CHINESE CABBAGE

**"Peking" (genuine "Pe-Tsai")**—This grand variety is similar to the Chokurei in general appearance, but is superior to it in every way. The plant is of the same size, but the head proper is much larger and compact. The interior blanches creamy-white, crisp and delicious, and of that desirable rich celery flavor. It produces successfully throughout the year and is considered one of the best late fall and winter Pe-Tsai. It is a good keeper and shipper and its attractive appearance and fine quality make it one of the best sellers. We can say without exaggeration that this is the finest Pe-Tsai in existence today. Whether for medium early, main crop or late use, it has no equal, and is so finely bred and so true to type that in a field of several acres every head appears alike.

Pkt. 10c; oz. 50c; 4 ozs. \$1.75; lb. \$6.00, postpaid

### Chinese Cabbage—Wong Bok

Wong Bok produces a beautiful, crisp, blanched tall or long head, resembling a giant Cos Lettuce. As a salad it rivals the finest lettuce. Delicious sliced as cold-slaw. Boiled or steamed it makes delightful greens, more sprouts. Don't plant too early, grow it as a fall vegetable.

Plant like late cabbage, about 15 inches apart, in rows. Does its best in cool moist weather. Will last until freezing weather. Pkt. 5c; oz. 35c; 4 oz. \$1.00

**Danish Ballhead**—Our seed is absolutely unequalled! It is esteemed for winter use because of the great solidity and excellent keeping qualities of the heads. From repeated trials, as well as from the experience of many customers purchasing our original Danish-grown seed, we know that this selected strain surpasses in even growth and heading, as well as in uniform size and solidity of heads, any other stock of "so-called Hollander Cabbage." The magnificent heads are nearly round in form, very hard and solid; they keep in finest condition, when buried through the winter, coming out solid in spring. Per pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 75c; lb. \$2.50.

**Danish Roundhead**—Has given such splendid satisfaction to growers for winter market that we could fill pages with enthusiastic letters from pleased planters.

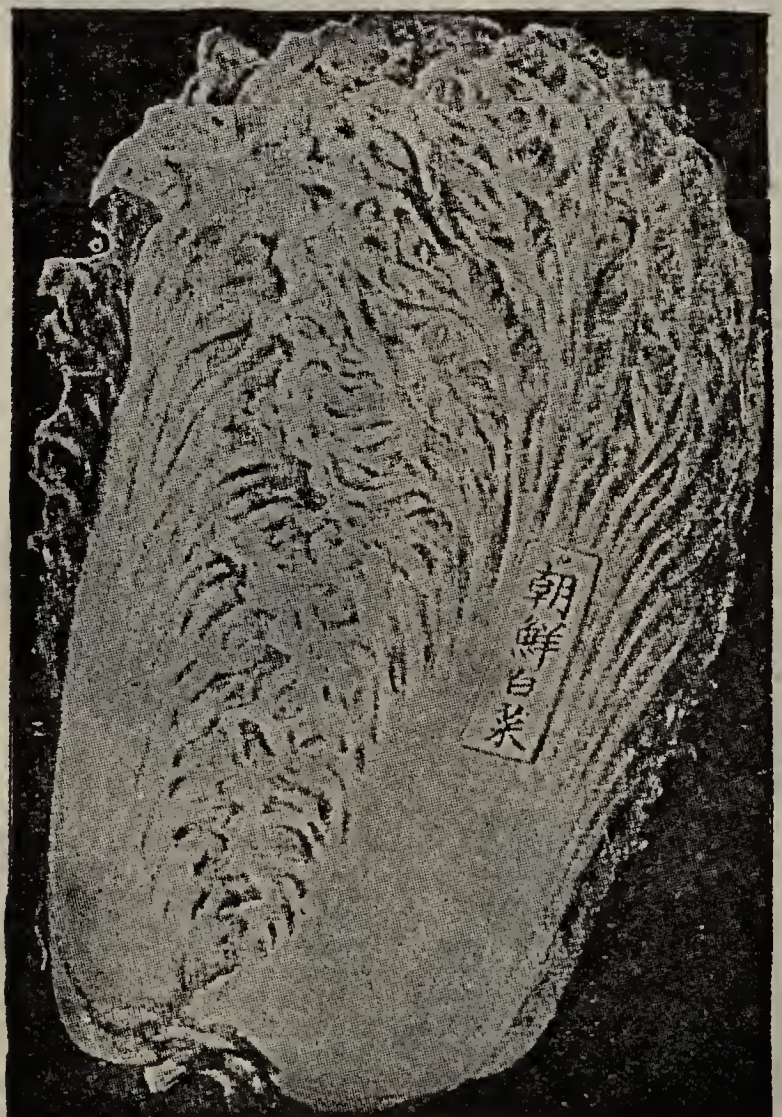
The heads average larger in size than those of the Ballhead, maturing about two weeks earlier, and are set on shorter stalks. They are extremely hard and solid, with interior leaves blanched to the purest whiteness; sweet flavor and crisp tender texture. Per pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 75c; lb. \$2.50.

**Premium Flat Dutch**—An improved strain of the old Large Late Flat Dutch type. Highly esteemed. Pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 75c; lb. \$2.50

### BALLHEAD

**Burpee's Surehead Cabbage**—This famous cabbage was first introduced years ago. It produces large round flattened heads, of the Flat Dutch type, and is remarkable for its certainty to head. It is all head and always sure to head. The heads are remarkably uniform, extremely hard, fine in texture, and ordinarily weigh from ten to fifteen pounds each. It is very sweet flavored, has but few loose leaves, keeps well, is good for shipping, and is just the variety and quality to suit all lovers of good cabbage.

Per pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. \$1.00; lb. \$3.00 postpaid



"PEKING" "PE-TSAI"



## CAULIFLOWER

**Cultivation**—The main thing in growing good Cauliflowers is to rush them on quickly, and never allow them to be checked in their growth; in dry weather they should be copiously watered, especially if just planted out. The soil should be deeply trenched and well-dressed with stable manure, and occasional dressings of liquid manure during the growing season will materially increase the crop. Sow in seed beds, and, when large enough, transplant in rows two feet apart and eighteen inches between the plants. Hill up between the rows, and keep the ground well cultivated. Summer and autumn are the best seasons to sow. The later varieties are very much the hardiest, and will often make good heads under circumstances which would cause the early varieties to "button." The early sorts mature in three to four months, the later ones five to eight months.

### KING WHITE

**King White**—A remarkably sure heading early Cauliflower. It is of dwarf habit with short outside leaves and is similar in most respects to Early Snowball, and nearly as early. The heads when ready for market are of medium to large size. The curd is white, exceptionally deep and of finest quality. It will give excellent results either in the home garden or for market use and is superior to most seed sold at higher prices. Where extreme earliness is not the greatest consideration we recommend this strain.

Per pkt. 10c; ¼ oz. 75c; oz. \$2.50

### BURPEE'S NEW "DRY-WEATHER" CAULIFLOWER

Succeeds even where all others fail. Similar to Burpee's Best-Early, it produces equally large, solid, pure white heads, and is only about a week later. It is especially adapted for growing in dry locations where other varieties fail; make the soil quite rich and give thorough cultivation. It is superior to any other excepting only Burpee's Best-Early. By the use of this strain fine cauliflower can be grown in many dry districts where it has been impossible heretofore to raise this luscious vegetable.

Per pkt. 10c; ¼ oz. 75c; oz. \$2.50; ¼ lb. \$7.00

**Early Snowball**—This is a popular extra early strain of dwarf compact growth. Under favorable circumstances, nearly every plant will make a fine solid head of good size. It is valuable for both early and late.

Per pkt. 5c; oz. \$2.00; ¼ lb. \$5.00

**Extra Early Dwarf Erfurt (Extra Selected)**—This is the choicest selected strain of the popular Erfurt type.

Per pkt. 10c; oz. \$2.50

**Algiers**—A very strong growing late variety, with large leaves of a bluish cast. In cool locations and rich soil it produces very large solid heads late in the fall.

Per pkt. 10c; oz. \$1.25; ¼ lb. \$4.00

### BURPEE'S BEST-EARLY

**The Earliest and Best Quick-Growing Cauliflower**—This grand strain was first introduced thirty years ago, and has fully maintained all the merits then claimed for it. The plants are of strong growth, with erect, pointed dark green leaves growing closely about the head. It is remarkable both for the extreme earliness and certainty with which the plants produce fine heads. In good soil the heads measure eight to ten inches across; they are of pure snowy white, with very close compact curd of extra fine quality. So extremely solid and deep are the nearly globe-shaped heads that they weigh heavier than other heads of equal size. Market gardeners can plant Burpee's Best-Early Cauliflower for both early and late crops, with full assurance that it is the choicest and most reliable strain that can be procured. Had we space to spare, we could publish many testimonials from experienced growers who are most enthusiastic in stating that this is beyond doubt, all its name implies—"The Best-Early Cauliflower."

Per pkt. 15c; oz. \$3.00; ¼ lb. \$10.00

## CELERY

**Culture**—Sow the seed (which is slow to germinate) in shallow boxes indoors or in a finely prepared seed bed out of doors in straight rows, so that the small plants may be kept free from weeds. See to it that the seed is not covered too deep and that the bed is kept moist, almost wet, until the seed germinates, as plenty of moisture is essential to get a satisfactory growth. The seed will not germinate well if planted in a hot-bed or where subjected to a temperature above 60 Deg. Fr. When the plants are one or two inches high, thin out and transplant so that they may stand three inches apart each way. When they are four inches high, cut off the tops, which will cause the plants to grow stocky.

### CELERIAC or Turnip-Rooted Celery

**Culture**—Sow the seed at the same season and give the same treatment as common celery. Transplant the young plants to moist rich soil, in rows two feet apart and six inches apart in the row. Give thorough culture. As the roots are the edible portion of this vegetable, it is not necessary to earth up or "handle" it. After the roots have attained a diameter of two inches or over, they are fit for use. To keep through winter pack in damp earth or sand and put in the cellar or leave out of doors, covering with earth and straw like beets or carrots.



GOLDEN  
SELF-BLANCHING

**Large Smooth Prague**—An improved form of turnip-rooted celery producing large and smooth roots, which are almost round and with very few side roots. Plants vigorous, with large, deep green foliage.

Pkt. 5c; oz. 20c; 2 oz. 35c;  
¼ lb. 60c; lb. \$1.75,  
postpaid.

## CELERY

### GOLDEN SELF-BLANCHING

The best of all early "self-blanching" varieties. First introduced in America in 1884, this is decidedly better in quality than the White Plume. It is ready for use nearly as early, blanches as easily, and is larger in size. It is of dwarf compact habit, with thick, solid, heavily ribbed stalks, which blanch easily to a clear waxen yellow. When grown in rich moist soil, the stalks are numerous, each plant being fully as thick through as the largest of the tall late sorts, and with a large solid heart of beautiful golden-yellow stalks and leaves. Per pkt. 5c; oz. 50c, postpaid

### GOLDEN SELF-BLANCHING

#### French Grown

The stalks are crisp and solid, free from stringiness, and of most delicious flavor. Finest French-grown seed, which is unsurpassed. Per pkt. 15c; ½ oz. 60c; oz. \$1.20; 2 ozs. \$2.35; ¼ lb. \$3.50; lb. \$11.00.

### WHITE PLUME

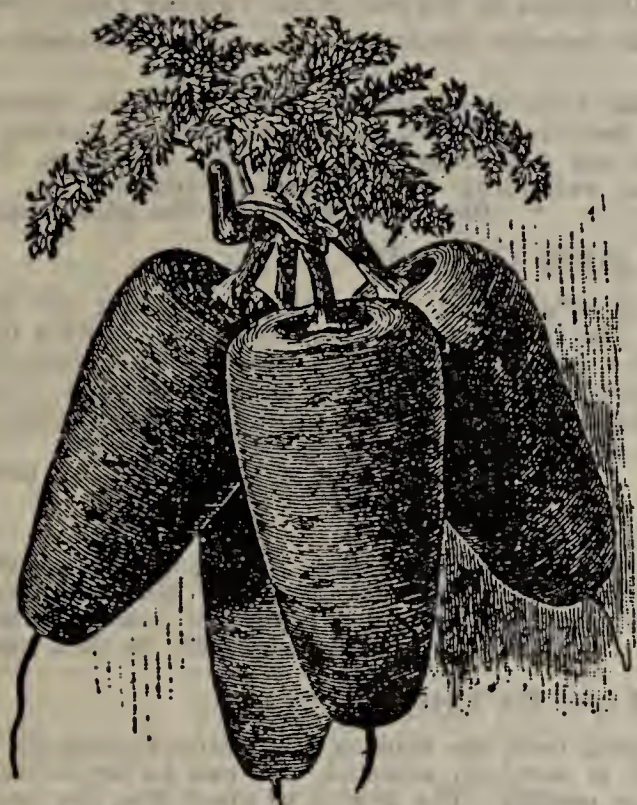
This is the earliest and most easily blanched, but does not keep well taken from the trenches. The plants grow rapidly and blanch easily during the summer months. Later in the Fall the central stalks and leaves are of pure snowy whiteness, even without earthing up, but stalks should be gathered together and earthed up as in other varieties, so as to produce close attractive bunches.

Per pkt. 5c; oz. 25c; ¼ lb. 60c; lb. \$2.50, postpaid



# CARROTS

**Culture**—While sandy loam made rich by manuring the previous year is the best soil for the carrot, any good land if thoroughly and deeply worked will produce satisfactory crops. When possible to do so, it is advisable to sow as early in the spring as the ground is fit to work, though good crops may, in this latitude, be grown from sowings as late as June 15, but success from such late planting is uncertain. For table use sow the smaller kinds as early as practicable in rows 16 to 18 inches apart. For field culture, prepare the ground thoroughly and sow in drills 18 to 24 inches apart, using from one and one-half to three pounds of seed to the acre. Cover one-half to one inch deep and see to it that the soil is pressed firmly above the seed. As soon as the plants appear use the cultivator or wheel hoe. Do not let the weeds get a start. Thin the smaller table sorts from six to eight to the foot, and the field varieties from four to six inches apart in the row. For winter use, gather and store like beets or turnips.



## CORELESS CHANTENAY THE SWEETEST CARROT KNOWN

**No Core No Stringiness No Coarseness**

A gardener once said, "Give me a coreless Carrot and I will show you one of the sweetest, most delicious vegetables on earth." He was right. A Carrot without a core is a rare treat and nothing is more delicious. This variety is free of the stringy, coarse heart or core that is found in other Carrots. Owing to the fine texture of the red flesh, and its tender, delicate flavor it is called the Sweetest of All Carrots. It grows from six to seven inches in length and is of a beautiful orange red.

Per pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00, postpaid

**Chantenay**—This splendid Carrot belongs to the half-long "stump" or blunt-rooted type, but differs from all others of this class by its greater girth, bulk and consequent yield. It averages 6 to 7 inches in length, is broad at the neck, narrowing gradually to the round, blunt base, therefore is easily harvested. The flesh, entirely free from core, is of rich orange-red and of the finest table quality, fine-grained, tender, juicy and delicately flavored.

Per pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid

**Guerande, or Ox Heart**—Tops small for the size of the roots which are comparatively short but often reach a diameter of five inches, terminating abruptly in a small tap root. Flesh bright orange, fine grained and sweet. This variety is especially desirable for soil so hard and stiff that longer rooted sorts would not thrive in it. When young the roots are excellent for table use and when mature are equally good for stock.

Per pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid

**Butzer's Selected Half-long Danvers Carrot**—A handsome half-long, cylindrical, stump-rooted Carrot of good size and of a rich, dark orange color; it grows to a large size, is smooth, and the flesh very close in texture, with very little core and a small tapering tap-root. It is a first-class Carrot for all soils; under good cultivation it has yielded 25 to 30 tons per acre, with the smallest length of root of any now grown, and is more easily harvested than the longer types. Our selected stock gives the best of satisfaction.

Per pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid

**Improved Long Orange**—This is a decided improvement obtained by years of careful selection of the best formed and deepest colored roots of old Long Orange. The most popular of the older sorts for farm use on deep and mellow soil. Roots distinctly larger at crown, shorter, thicker and smoother than those of Long Orange, but so uniform and true to type that the bulk of the crop will be greater. Per pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid. Write for price on larger quantities.

**Improved Nantes (Coreless)**—A fine quality half-long carrot, almost cylindrical in shape, blunt end and very small tap root. Flesh fine grained, with very little core. The skin is a beautiful orange color and very smooth. Improved Nantes is one of the best table sorts that we list. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

**Early French Forcing**—This is a delicious little table carrot, tender and sweet-flavored, and very early. It is almost globe-shaped. Pkt. 5c; oz. 15c; ¼ lb. 40c

**Early Horn**—Short; the best for early market. In shallow ground a good variety to plant, even for main crop. Pkt. 5c; oz. 15c; ¼ lb. 40c

## Carrots for Stock Feeding

**Carrots for Stock Feeding**—These can be grown easily in good, loose soil; keep well when stored for Winter use and form an extremely wholesome addition to the Winter rations of stock when fed in conjunction with corn and dry fodder. The rich coloring of the deep orange-colored sorts is esteemed also as imparting a richer coloring to milk and butter during Winter months.

They are grown most easily in land which has been under cultivation the preceding season, and which has been manured heavily and plowed during the previous Fall, though short, well-rotted manure will give excellent results, turned under in the Spring if the surface is finely prepared before sowing the seed. Seed should be sown early, thinly in drills three feet apart using four pounds of seed to the acre. Give thorough cultivation throughout the season, working more deeply as growth advances.

**Improved Short White Mastodon**—The most productive and most easily harvested for stock feeding. The roots grow about eight inches in length, measuring three inches at shoulder and gradually tapering throughout their length. Smooth, white skin, free from small rootlets. Flesh solid, white, crisp, rich and nutritious. We have reports of this variety yielding 20 tons per acre.

Per pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid

**Large White Belgian**—This Carrot grows a third or more of its length above the surface. Roots will average two inches in diameter at the shoulder and a foot or more in length. The diameter is even throughout the entire length, the roots tapering gradually at the base. They are easily pulled in harvesting, and do not have to be dug out, like most long-rooted sorts. Flesh and skin pure white, though the latter is occasionally tinged with green in upper portion growing above the soil.

Per pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid

**Large Yellow Belgian**—This is similar in growth and form to the preceding, but flesh and skin of the portion growing below the soil are of a pale orange coloring. These two varieties have probably been grown more extensively than any others for stock feeding in the past, but are destined to be superseded to a great extent by the large, thick roots of the improved white variety offered above, and the thick, stump-rooted table sorts.

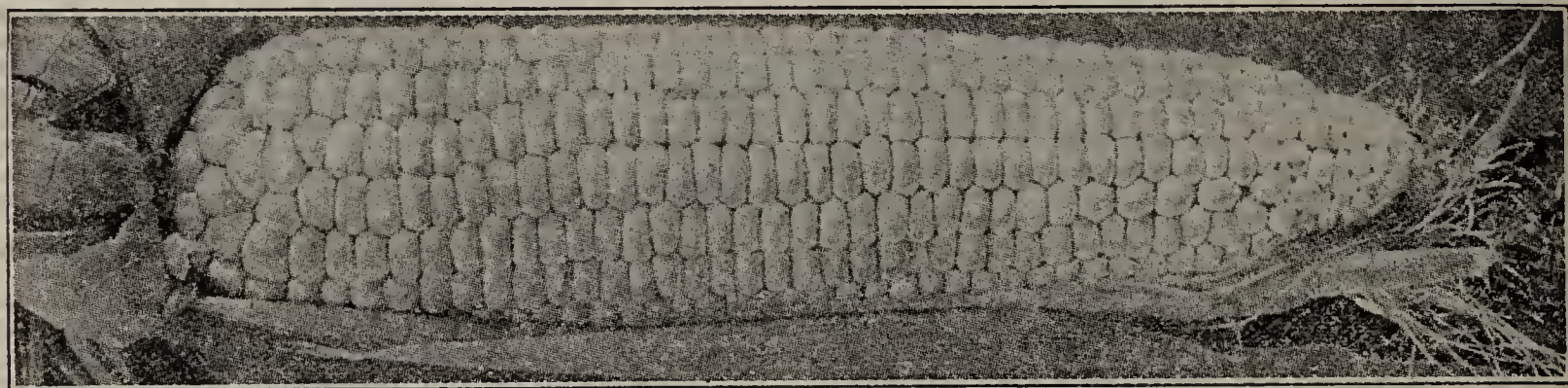
Per pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid

**STIMUGERM**  
LEGUME INOCULATION

Makes a  
Wonder Garden



# CORN--Sweet or Table Varieties



## "GOLDEN BANTAM"

**Earliest and Best of All Extreme-Earlies—Most Surpassingly Delicious in Flavor—Most Famous Corn Grown**

**Golden Bantam**—Is becoming each year more firmly fixed in popular favor, because of its extremely early character, vigorous growth and surpassing delicious flavor.

Although the dry grain is entirely free from any flinty glaze, it is exceptionally hard and firm, hence can be planted earlier than any other true sweet corn. The stalks are dwarf and sturdy in habit, growing to a height of four feet; they bear two and three good ears, which are set well above the ground. The ears, five to seven inches in length, have eight rows of broad yellow grains, extending to the extreme rounded tip.

Pkt. 10c; lb. 25c; 5 lbs. \$1.00, postpaid

## GOLDEN CREAM

This sweet corn is of California origin and the result of crossing the Golden Bantam on the Country Gentleman. The Golden Cream resembles the Country Gentleman in appearance, having the same irregular rows and has also the deep-pointed kernel and the slender cob of that variety, otherwise it is entirely distinct, being of dwarf habit in growth, having an ear about the length of the Golden Bantam, and differs from the Country Gentleman in time of maturity, being very early.

Per pkt. 10c; lb. 30c, postpaid

## HOWLING MOB

For the earliest supply of fine, large, handsome ears, having the true sweet or sugary flavor, we feel that we cannot recommend the Howling Mob too strongly, either for home use or to the market gardener having a trade for quality in garden products.

Per pkt. 10c; lb. 30c, postpaid

## STOWELL'S EVERGREEN

**Stowell's Evergreen**—This has long been the leading main-crop variety for home use, market and canning. Our stock is carefully selected, and can be depended upon to produce fine large ears of superior quality. The grains of good size, are long and slender—entirely free from glaze or flintiness. Per pkt. 10c, lb. 25c; 5 lbs. \$1, postpaid

## BLACK MEXICAN

**Black Mexican**—A medium-early variety, growing about six feet in height, ears eight inches long, well filled with eight rows of large rather flat grains, which are a deep bluish purple of superlatively sweet flavor.

Pkt. 10c; lb. 30c, postpaid

## COUNTRY GENTLEMAN

**Country Gentleman**—Has a small white cob densely covered with irregular rows of deep, splendid white grains of delicious flavor. Ears average 8 to 9 inches in length. The stalks grow about 6 feet high and average three or four ears each.

Pkt. 10c; lb. 30c, postpaid

## PORTLAND MARKET

An Oregon introduction, a very early, large eared sweet corn and very productive. Its large well-filled ears together with its plump, sweet grains of purest white, make it a most profitable home or market variety. Very popular with our market gardeners.

Pkt. 10c, lb. 25c; 5 lbs. \$1.00, postpaid

## OREGON EVERGREEN

The flavor and sweetness have not been excelled and the extreme whiteness of the large ears makes it very beautiful and valuable for canning. It is large and the stalks produce more ears than any other variety and have a very heavy husk over the grains, protecting them from insects and keeping the ear fresh a long time after cutting.

Pkt. 10c; lb. 30c, postpaid

## POP CORN

**Black Beauty**—We believe this is not only the earliest maturing variety in cultivation but it is ready for popping earlier than any other sort. It pops very large and exceptionally white. The kernels are black but this color is not noticeable after popping, when this sort is the largest and most tender of all. The ears are about six inches long, twelve rowed. The kernels are smooth, shallow and are nearly square.

Per pkt. 10c

**White Rice**—A very handsome and prolific white variety. The ears are five to seven inches long. The kernels are long, pointed and somewhat resemble rice. This excellent rather late maturing variety yields heavily and is considered the best pop corn for parching.

Per pkt. 10c



STOWELL'S EVERGREEN



# FIELD CORN

THESE VARIETIES HAVE ALL BEEN GROWN ESPECIALLY FOR SEED. THE SEED IS WELL CURED AND TRUE TO NAME.

There is no longer any doubt as to Corn being grown successfully in the Northwest, and careful tests have proven the following to be adaptable to our coast climate. As a fodder crop corn cannot be excelled, and cut green and packed in silos it makes a valuable green feed for milch cows.

We can quote very low price on Corn in lots of 10 lbs. and over. Write and ask us.

## MINNESOTA No. 13

This dent corn has been a surprise to its users on account of its extreme earliness. The ears are not as large as some other varieties, but its large production of ears makes it a heavier yielder than most others.

The ears are of handsome appearance, bearing 16 to 20 rows of bright, yellow, smooth wedge-shaped kernels packed closely on the cob from butt to tip. The ears average eight inches in length and are borne usually two on a stalk. No corn excels in quality the Minnesota No. 13; the cobs are well filled and the individual kernels plump and of good color.

Minnesota No. 13 thoroughly matures in ninety days when planted on favorable soil and in a good location, but ninety-five to one hundred days places it out of danger under average conditions. It may be planted as late as the second week in June and yet safely mature a crop.

Per lb. 15c, postpaid

## IMPROVED LEAMING

A very popular and extremely productive variety. On good land the stalks grow tall, producing two good ears to each stalk. The ears are long, with small red cob, well filled with grains of medium size, of a rich golden color. It ripens in from 100 to 110 days, and makes a good crop even in dry seasons, by reason of its strong vigorous growth. Stalks are leafy, making excellent fodder, while the grains, being so deep, yield an extra large quantity of shelled corn per bushel of ears.

Per lb. 15c, postpaid

## EUREKA ENSILAGE

This variety is a favorite for the silo. But some objection has been expressed, that the stalks are too large to be handled conveniently. This would indicate that it had been grown on very rich soil. It is very stalky and stands up well. The tonnage of silage per acre will average well above 20 and may yield 30 tons. Any claim above this is based upon individual acreage. Per lb. 25c; 10 lbs. \$2.00, postpaid. Write for quantity price.

## HAND CORN PLANTERS

### THE ACME

### THE ACME CORN PLANTER

A two-handled planter; light, strong and durable. Especially adapted for planting in heavy, cloddy or stony soils. The seed dropper of the Acme is a straight slide, which works horizontally and will drop seeds ranging from popcorn to large kidney beans. Made with spring brass cut-off and steel blades.

Acme Corn Planter, weight

5 lbs. ....\$1.25

### THE SEGMENT ONE-HAND CORN AND BEAN PLANTER

A light, strong, accurate planter. The working parts are of steel, the brush of genuine Chinese bristles, the seed box and hopper of galvanized iron. As the name of the planter indicates, the slide is the segment of a circle and so constructed that there is no friction of lost motion.

Segment Corn Planter, weight 5 lbs. ....\$2.00

If wanted by mail add postage.

### THE ROTARY HAND CORN PLANTER

Automatic—One Hand

Puts the right number of kernels just where you want them and at the proper depth, requiring only one hand, either right or left. Weight packed, 6 lbs.

Price, \$2.50

## PRIDE OF THE NORTH

A Dependable Early Yellow Dent Corn. In some sections of the Northwest it equals other varieties in yield and quality. The stalks are well proportioned, being short jointed and leafy. Two or more well developed ears are frequently found on a single stalk. The kernels are very deep and closely set on the ear. Pride of the North shells more Corn in proportion to cob than most other varieties grown in the West. It is specially valuable to stockmen, to feed in the bundle thus saving the expense of husking. Average height of stalk 8 feet, average distance base of ear from ground, 3 feet.

Per lb. 15c, postpaid

## OREGON GROWN YELLOW DENT

Oregon grown; acclimated. A grand success in Oregon. We have been raising this variety for years, and by selecting the earliest ripening and best select ears, now have a strain that is a revelation to many people who have thought Oregon and Washington could not raise profitable field corn. Pkt. 10c; lb. 15c, postpaid

## EVERGREEN SWEET FODDER CORN

All varieties of sweet corn possess very much more "sugar" than any feed sort, and this being the most important constituent, it necessarily follows that the corn holding this in greatest quantity has the greatest net value. Evergreen Sweet Fodder grows much taller than the Early Sweet Fodder and makes well formed, but not matured, ears in almost any part of the Northwest. Drill  $1\frac{1}{2}$  to 2 bushels to the acre.

Per lb. 20c, postpaid

## CHAMPION WHITE PEARL

A large, White Dent variety; very popular with our dairymen on account of the great amount of green feed it makes.

lb. 15c, postpaid

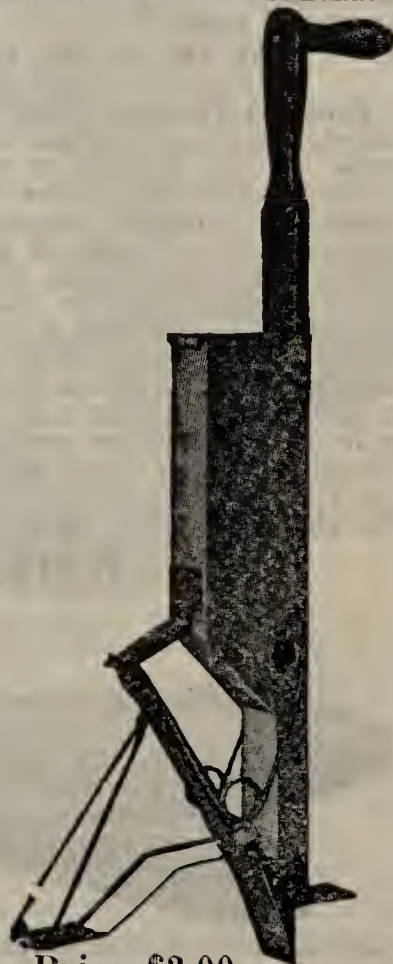
### The ROTARY HAND CORN PLANTER

Automatic—One Hand

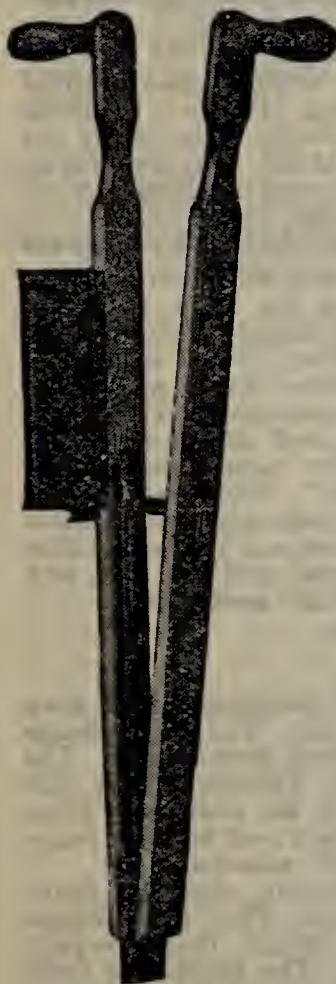
### THE SEGMENT ONE-HAND CORN PLANTER



Price \$2.50



Price \$2.00



Corn Planter  
Price, \$1.25



# CUCUMBER

The Cucumber requires well-enriched soil, and should not be planted until settled warm weather, in this latitude, seldom before the middle of May. Plant the early, small kinds in hills  $3\frac{1}{2}$  to 4 feet apart, the larger varieties 5 to 6 feet. Make the hills broad, use 15 to 20 seeds to the hill, dropping them well apart. Cover with not over an inch of earth, and firm this well with the hoe. If the young plants are attacked by the striped bugs or other insects, dust frequently with air-slacked lime, soot or ashes mixed with road dust, taking care that too much is not used at one time. When all danger from bugs is past, thin to three plants to the hill. Give frequent shallow cultivation as long as vines will permit.

**Arlington White Spine**—The cucumbers are very regular in outline, uniform in size, averaging seven to eight inches in length, straight and of a rich, dark-green color. Flesh white, crisp, and solid, with comparatively few seeds. Vines are of vigorous growth and very productive.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00, postpaid

**Davis Perfect**—Fruits very deep green in color, rather long, averaging ten inches or more in length, white spined, quite slender, symmetrical, tapering slightly at both ends. Flesh is crisp, tender and of good quality. The seed cavity is small. The vines are very vigorous growing and quite productive. Recommended as one of the best sorts for shipping as it retains its attractive dark color for a long time after picking.

Per pkt. 10c; oz. 15c; 2 oz. 25c;  $\frac{1}{4}$  lb. 40c; lb. \$1.50

**Extra Early Green Prolific, or Boston Pickling**—This is a very prolific variety, largely planted for pickles. The fruits average four to five inches in length when large enough for slicing, and are of excellent quality; but it is chiefly for producing medium-sized pickles that this variety is so highly esteemed. If the fruits are gathered as soon as large enough, the vines will continue bearing through a long season.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; per lb. \$1.00

**Fordhook Famous**—The longest White Spine, the finest flavored of all. This is the handsomest and best of all long green cucumbers; always straight and well formed, they never turn yellow, and critical buyers are willing to pay an extra price on market for these unequalled fruits.

Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.40, postpaid

**Fordhook Pickling**—This is the best and most prolific variety for producing pickles of medium size, both for home use and market, or to grow for the pickle factories—in fact, we prefer it to the Cumberland. The vines are extremely vigorous and healthy, yielding a large number of fruits if kept gathered at the proper stage, and remaining in strong, healthy growing condition longer than any other variety. Skin extremely thin, tender and free from toughness when pickled. If allowed to grow to full size, fruits are of excellent table quality, but where the largest quantity of pickles is desired fruits should be gathered while small, so as to insure the greatest crop to produce larger fruits for slicing will soon check growth and productiveness of the vines.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; per lb. \$1.00, postpaid



Long Green (The old stand-by)

**London Long Green**—This is an old-time popular garden favorite. Under favorable conditions produces dark-green fruits from ten to twelve inches in length. Skin a deep rich green; flesh solid, crisp and of excellent quality.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00, postpaid

**Japanese Climbing**—A useful variety for growing on a trellis or wire. The cucumbers are long, of a dark green color, white flesh, crisp, and of a good flavor.

Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 50c

**Lemon Cucumber**—This dainty little cucumber resembles a lemon both in form and color, having a distinctive flavor superior to and not found in any other cucumber. The Lemon Cucumber is so prolific that a single vine will be ample for the needs of the average family. It is also said that the Lemon Cucumber can be eaten without fear of harmful results that some experience from eating cucumbers.

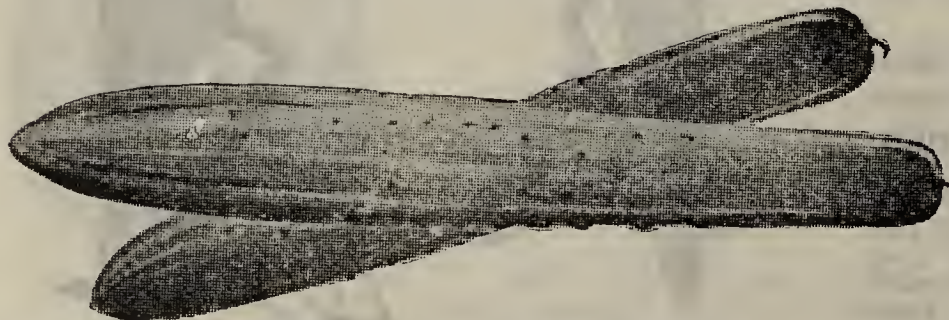
Pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 75c; lb. \$2.00

**West India Gherkin**—A very prolific smallfruited variety, used exclusively for pickling. It is not properly a cucumber, and of no value for slicing. The fruits are two to three inches in length, thick, rounded form, closely covered with spines. Vines rather slender, with small foliage, but of strong growth.

Per pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 60c, postpaid

**Fordhook White Spine**—The fruits are nearly cylindrical in form, slightly pointed at the ends, perfectly smooth, of deep rich coloring, marked with distinct white lines at the blossom end. They are of extremely handsome and attractive appearance. Vines are vigorous in growth and enormously productive. Fruits retain their dark-green coloring and crisp freshness longer after picking than any other variety—excepting only the new “Fordhook Famous.” They retain also their fine quality even after the seeds are well formed. Splendid as table cucumbers and for market, while it is equally as desirable for commercial pickles. Per pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 40c; per lb. \$1.25, postpaid.

## NOVELTY CUCUMBER “CHINA-LONG”



A most remarkable and handsome new long green cucumber from China. The most fleshy and finest flavor of the long green type. The vines make a tremendous growth. They are unusually vigorous, bearing an enormous crop. The foliage is rich dark green and is quite resistant to diseases and insect attacks.

China-Long makes perfectly straight fruit. They average about 20 inches. They are thickest in the middle of fruit, where they average 2 to 3 inches in diameter. The attractive fruit tapers gently towards the ends, holding their thickness well until they run off into a round stem and blossom end. We recommend this novelty cucumber as much the best of all, and the variety anyone should plant.

Per pkt. 15c, postpaid



## THOUSAND-HEADED KALE

Is a variety of cabbage that produces enormously. The plant attains a height of 3 to 4 feet; the stem is covered with leaves. Animals, especially sheep, eat it greedily. It grows well on any land and is very hardy. As we predicted it is now more popular than the widely used Dwarf Essex Rape.

The seed may be either drilled or broadcasted. Drilled is the better. If drilled, plant rows 26 to 30 inches apart as plants should be thinned out so as to stand 16 to 18 inches apart in the rows. In drilling use  $\frac{3}{4}$  to one pound of seed to the acre; in broadcasting,  $1\frac{1}{2}$  lbs.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 15c; lb. 40c, postpaid.

### PLANTS IN SEASON

Write for Price



THOUSAND-HEADED KALE

## KOHL RABI

The edible part is the turnip-shaped bulb formed above ground. It is tender and excellent when used before fully grown, combining somewhat the flavors of cabbage and turnip.

Seed should be sown in light, rich soil as early in Spring as possible in rows one and one-half feet apart and when well established thin to six inches apart in the row. Plantings at intervals of ten days will give a succession until hot weather, when they fail to grow well. Plantings may be made the latter part of July for Fall use.

**Early White Vienna**—This variety is extremely early, with distinctly small tops. The bulbs are of medium size, very light green or nearly white, and are of best quality for the table if used when about two inches in diameter.

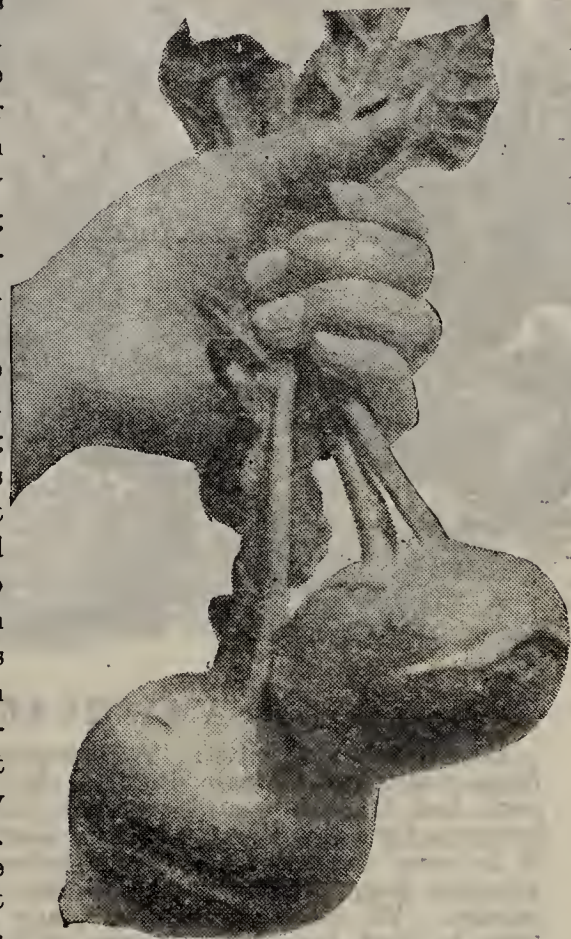
Per pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 75c; lb. \$3.00

**Early Purple Vienna**—Same as above except in color, which is purple.

Per pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 75c

## HORSERADISH

Of the common variety, we offer small roots, 8 for 20c; 25c per dozen, or 90c per 100, postpaid. By express or freight, per 100, 75c. Write for price in quantity.



## KALE OR BORECOLE

This is extensively grown, especially in the South during the fall, winter and spring. The leaves are used principally for greens. A favorite way is to cook them with bacon. The leaves are also used for garnishing.

**Tall Green Curled Scotch Kale**—The plant of this variety grows to three or four feet high, bearing long, plume-like, light green leaves which are deeply cut, also finely curled at edges. Very ornamental and so hardy that a moderately heavy frost improves rather than injures its quality.

Per pkt. 5c; oz. 15c; 2 oz. 25c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25

**Dwarf German or German Greens (Dwarf Curled Scotch)**—Leaves are curly, bright green, very tender and delicate in flavor.

Per pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 60c; lb. \$1.75, postpaid

## GARLIC

The Garlic is the most pungent of all the onion family. It is much used in the south of Europe. The root or bulb is composed of many small bulbs called "cloves," which are planted in the spring 6 to 8 inches apart, and in August the bulbs are ready to gather.

Bulbs, lb. 25c, postpaid. Write for price in quantity.



# LETTUCE

For early outdoor culture in the latitude of Portland and Southward the seed may be planted in the Fall, protecting the young plants from severe freezing either with frames or coarse litter, which may be removed as soon as danger of severe freezing is over.

Lettuce in ground out of doors will stand some freezing, but is killed by prolonged frost or frequent freezing and thawing. North of Portland an early crop may be secured by starting under glass from January to March and hardening off well before setting in ground, which should be done as soon as weather will permit.

**Culture**—Lettuce, to be at its best, should be grown rapidly, hence, the soil should be made as rich and friable as possible by liberal manuring and thorough preparation. For winter, sow under glass from November to February and thin out as necessary to prevent crowding. Keep a moderate heat and give all the light and air possible. For general crop, sow outdoors as early in the Spring as the ground can be worked, in drills eighteen inches apart and thin the young plants to four inches apart in the row. As the plants begin to crowd, thin them out and use as required. In this way a much longer succession of cuttings may be had from the same ground.

## CABBAGE OR HEADING VARIETIES

**New York or Los Angeles**—This is the variety that is planted so extensively in all parts of California and other states where lettuce is grown for Eastern shipment. The plant is very large but compact and tight heading; outer leaves attractive deep green, broad, frilled at edges. The inner leaves form a large head, white, very sweet and tender when in condition for use.

Pkt. 5c; oz. 20c; ¼ lb. 65c; lb. \$2.00

### No. 12 NEW YORK LETTUCE or EXTRA EARLY MOUNTAIN ICEBERG

A comparatively new strain of New York lettuce, developed by Pieters-Wheeler Seed Growers of California. This lettuce is about a week earlier than the regular New York strain. It produces larger heads, which are more rounded and less cone shaped. No 12 produces a very uniform crop. A crop that does not tip burn, blight nor shine as readily, and because it is not as susceptible to hot weather it does not bolt to seed as quickly. Pkt. 10c; oz. 25c; ¼ lb. 80c; lb. \$2.50



**Burpee's Butterhead**—A grand mammoth hard-heading Cabbage Lettuce. Plants twelve inches across, with extra large, solid round heads, that are particularly rich and buttery in flavor, always well blanched and tender. The inner leaves are beautifully white and curled like a fine Savoy Cabbage. Splendid for summer use, both for the home table and for market. Most highly recommended.

Pkt. 5c; oz. 25c; ¼ lb. 75c; lb. \$2.50, postpaid

**Brown Dutch**—Outer leaves large, thick, green tinged with brown and covering a solid head which is beautifully blanched, sweet, tender and well-flavored. The variety is desirable because of its hardiness and is well adapted for planting in the South as a winter lettuce.

Pkt. 5c; oz. 15c; 2 oz. 25c; ¼ lb. 40c; lb. \$1.25

**California Cream Butter, or Royal Summer Cabbage**—A very reliable heading sort, with glossy deep green leaves, the outer ones slightly spotted or splashed with brown. The inner leaves form a large very solid head, rich light yellow in color, very thick, tender and buttery.

Pkt. 5c; oz. 15c; 2 oz. 25c; ¼ lb. 40c; lb. \$1.25

**Hanson**—Grows to large size, and is uniformly sure heading. Heads very solid and beautifully blanched; crisp, mild and tender. One of the finest varieties to grow for market during the summer months. Our stock is unexcelled.

Per pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.25, postpaid

**Iceberg**—The unusual solidity of the heads is insured by the large, white main ribs of the leaves, each of which, curving strongly into the center, acts like a truss, making it impossible for the leaves to open outward and expose the center, which is constantly thoroughly blanched. It matters not whether grown to head in the early spring or the hottest days of summer, the leaves are always crisp and tender.

Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.50, postpaid

## MAY KING

The heads are very attractive, outer leaves being yellowish-green, tinged with brown, while inside it is richest golden-yellow. It is somewhat similar in appearance to Boston Market, but matures earlier and is lighter green in color, with less of the brownish tint.

Per pkt. 5c; oz. 20c; ¼ lb. 60c; lb. \$2.00

**Wayahead**—A very fine, very early strain of famous May King Butterhead, which it surpasses in every respect. 75 days to mature.

Pkt. 5c; oz. 25c; ¼ lb. 75c; lb. \$2.00, postpaid

## MIXED LETTUCE

This mixture contains Head, Loosehead, Curled, Brown, in fact almost all styles and shapes. Try a package.

Pkt. 5c; oz. 20c; ¼ lb. 50c; lb. \$1.50



## CREAMY HEART

The introducer says: "A selection we have made from California Cream Butter. It is similar to that sort, but is earlier and without any brown spots or brown edge, and is of most excellent, tender quality. It is very desirable for early spring planting, where a butter head is demanded both for market and home garden. We believe it has a place in the list of lettuce, in that, for early planting it is superior to Black Seeded Tennisball and similar varieties."

Pkt. 10c; oz. 50c; ¼ lb. \$1.00

## BIG BOSTON

This is a fine forcing variety for cold frames during the winter months, as it produces heads of very large size in a cooler temperature than most forcing strains. Large heads are beautifully blanched and of superior quality. It heads well in the open ground during cool weather of spring and fall; is very popular. Our seed is an extra selected strain.

Per pkt. 5c; oz. 20c; ¼ lb. 60c; lb. \$1.75



## LETTUCE—LOOSEHEAD CUTTING

**PRIZEHEAD**—Surpassingly tender, delightfully crisp, deliciously sweet.

“The Quality Loose Leaf Lettuce”

In Prizehead our aims have materialized—it is perfection—seems to be no room for improvement. It has every essential of a highly desirable loose leaf lettuce and is unquestionably one of the best and most reliable varieties for all year around cultivation. Equally popular with amateur and professional growers.

Its immense size and tenderness make it indeed a Prizehead. It is quite early and is slow to shoot to seed. The plants form a loose cluster of leaves, the inner part of which is well blanched, though there is no heart; the leaves are much blistered and crumpled, are of light brown color, varying to bright green, and are of exquisite quality, tender and crisp in texture and sweet in flavor. An excellent variety for home use, more largely grown in this country than any other. We sell very large quantities of this variety.

Pkt. 5c; oz. 15c; 2 oz. 25c; ¼ lb. 40c; lb. \$1.35, postpaid

### BLACK SEEDED SIMPSON

One of the best varieties for early sowing out of doors where a large, thin, exceedingly tender leaf is desired and for those markets which demand a large, loose clustering sort, light yellowish green. Leaves large, thin, slightly ruffled and blistered, even the large outer ones being quite tender. Uniformly attractive, of excellent quality and continues a long time in condition for use.

Pkt. 5c; oz. 15c; 2 oz. 25c; ¼ lb. 40c; lb. \$1.50, postpaid

### EARLY CURLED SIMPSON'S

An early, erect growing, clustering variety. Leaves light green, slightly frilled and much blistered, sweet, tender and well-flavored. The sort is especially adapted for sowing thickly and cutting when the plants are very young.

Pkt. 5c; oz. 15c; 2 oz. 25c; ¼ lb. 40c; lb. \$1.25, postpaid

### GRAND RAPIDS

This does not form heads, but makes large compact bunches of light leaves with fringed edges. Its delicious quality and handsome appearance make it most popular in winter markets. It is useful also for outdoor planting during spring and fall. Our stock is extra fine.

Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25, postpaid

### CHICKEN LETTUCE

A variety recommended for chicken-feed only, as it produces a large bunch of leaves. When running to seed, grows 4 feet tall and supplies lots of green feed. A fine tonic for laying hens.

Pkt. 10c; oz. 20c; ¼ lb. 50c; lb. \$1.50

## Cos or “Celery” Lettuce—Salad Romaine

This is the Lettuce that is served at the best hotels and restaurants under the name of “Romaine Salad.” It differs from ordinary Lettuce by the shape of the leaves, which are elongated, spoon-shaped and very crisp. It is grown in the same manner as Cabbage Lettuce, but does not make a solid head. The seed should be sown early in the Spring, in good soil, and when plants have three leaves thin out to stand about 4 inches apart in the row, and when plants are of a sufficient size the leaves should be drawn together and tied, in order to blanch the inner ones.



### EARLY WHITE SELF-FOLDING

This excellent variety, also called Trianon, forms a large light green plant with a well folded head of very good quality. The midribs are white and very prominent. The inner leaves are nearly white, slightly tinged with green, and are decidedly firm and sweet. This is considered the most reliable of the Cos or celery lettuces for the home garden or market gardeners' use in this country.

Pkt. 5c; oz. 15c; 2 oz. 25c; ¼ lb. 40c; lb. \$1.50

### ECLIPSE, OR EXPRESS

Eclipse, or Express, is a dwarf extra early sort, growing about six inches in height, with the leaves very closely folded together.

Per pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.50

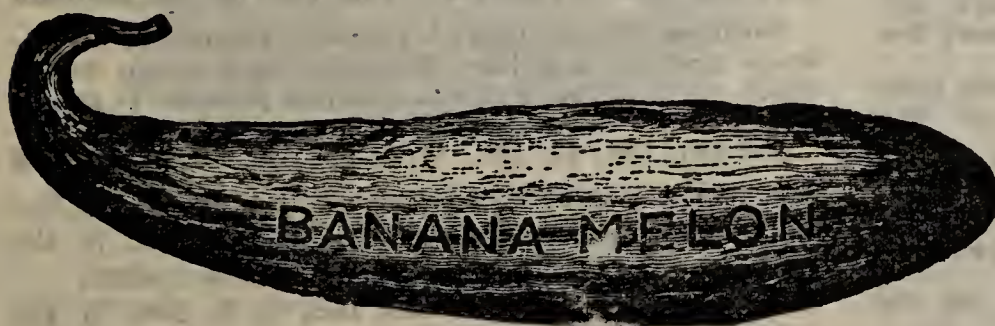
### LEEK

This belongs to the onion family and is a good fall and winter substitute for green onions. The leaves are flat, and the stems are very large, cylindrical and bulbous. Sow early in spring in drills 12 to 15 inches apart, covering one-half inch deep. Thin plants to six inches apart in row and draw the earth about them when cultivating. If one desires very white and tender leeks, transplant when about six inches high, setting four inches apart in trenches about two feet apart and gradually earth up like celery.

**Broad London, or Large American Flag**—This is a strong growing variety, producing large, thick stems of sweet flavor when properly blanched. Per pkt. 5c; oz. 25c.

## Banana Muskmelon

A long yellow-fleshed melon. A very interesting and at the same time a splendid melon. The melon is from 20 to 28 inches long and almost solid. The meat is of a rich salmon color, and has a flavor which is truly delicious. Don't pick the melons until they are thoroughly ripe, as they are then at their best. Plant some Banana Melons for home use and county fair exhibits. Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25.





## WATER MELONS

**Culture**—In order to get good Water Melons, it is essential that the plants get a good start, and to this end it is important to prepare hills about eight feet apart by thoroughly working into the soil an abundance of well-rotted manure—hen manure, sheep guano, guano, or other forms rich in nitrogen, being most desirable. Over this highly-manured soil put an inch or more of fresh earth and plant the seed on this, covering it about an inch in depth. It is important that the seed should not be planted before the ground becomes warm and dry, as the young plants are very sensitive to cold and wet. When the plants have formed the first pair of rough leaves, they should be thinned, so as to leave two or three of the strongest and best to each hill. Frequent watering of the plants with liquid manure will hasten the growth, thus diminishing the danger from insect pests.

**Baby-Delight**—Is a "real" watermelon, of luscious sweetness but diminutive size. The ripe melons weigh only from 3 to 6 pounds each. The skin is lustrous dark green, the rind thin but strong. The rich carmine crystalline flesh is always solid and of exceptionally sweet flavor.

Per pkt. 10c; oz. 35c;  $\frac{1}{4}$  lb. \$1.00; lb. \$3.50, postpaid

**Cole's Early**—The Northern States' favorite. As an early melon it is the standard of high quality; in sugary delicious crispness, flavor and melting tenderness, it is the top-notch. It is oblong shaped, about 20 inches long, 12 inches through; skin mottled green, thin brittle rind, therefore not a good shipper. The flesh is rich and deliciously sweet.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00

**Cuban Queen**—The melons are of large size and oblong in form. Skin beautifully striped in dark and light green. Rind quite thin, but tough enough for shipping. Flesh bright red, firm and of luscious quality.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 85c

**Fordhook Early**—An extra early variety of fine quality and fair size; form round to oblong; skin dark green mottled with a darker shade; flesh bright red; seeds white.

Per pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25, postpaid

**Hungarian Honey**—Small round; rich red flesh.

Per oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25, postpaid

**Halbert Honey**—A variety somewhat similar to Kleckley Sweets—of much darker color.

Per pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00



**Citron**—The fruits are medium sized, uniformly round and are used exclusively for preserves or pickles. The color is dark green, distinctly striped and marbled with light green. The flesh is white and solid but is not at all suitable for eating raw. Seed red. The fruits mature late in the fall and in this condition can be kept for a long time.

Per pkt. 5c; oz. 15c; 2 oz. 20c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00

**Kleckley's Sweets, or Monte Cristo**—Medium to large in size, medium early and exceedingly sweet; oblong in form, slightly tapering towards the stem end; rind very dark green; flesh very bright, rich red and ripens nearly to the rind; too tender for a shipping melon; seeds white to light brown.

Per pkt. 5c; oz. 15c; 2 oz. 20c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00

**Klondike**—Rind dark green, thin. Flesh distinctive shade of red, brittle and sweet. Fruits oblong. A good shipper because it does not wilt.

Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.75, postpaid

**Sweetheart**—Over, light green mottled. Flesh bright red, very firm, yet tender. A fine shipper.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c

**Tom Watson**—Rind thin, dark green flesh, deep red, crisp, sugary. Fruits long, cylindrical. Stands handling and long shipment.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 75c, postpaid

**Black Seeded Ice Cream**—Fruits almost round, rind thin, medium green. Flesh pink, sweet. Matures early. A fine keeper.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 30c; 1 lb. \$1.00 postpaid

### MIXED WATER MELON

This mixture contains some of the big and some of the little fellows, some with white seed and some of black or brown seed.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00

## CASABAS

The Casaba is now at full zenith of popularity. Previously it was grown as a late melon to mature after the cantaloupe season. As a late melon its popularity was confined to a limited section near the Coast of Southern California. But it is now demonstrated that it can be grown in all semi-arid sections side by side with the early cantaloupes and water melons.

**Golden Beauty**—One of the best casabas. It is a variety grown extensively for shipment, from Southern California. The fruits are nearly globular, bright yellow with golden tint, with wrinkled skin, six to eight inches in diameter. The flesh is white, very thick, juicy and sweet.

Per pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 40c; lb. \$2.50

**Hybrid Casaba**—This excellent Casaba grows to a large size. Flesh nearly three inches thick and of excellent flavor. Per pkt. 5c; oz. 20c; lb. \$2.00, postpaid

**Santa Claus**—The name is appropriate to this melon. You can send nothing more delicious to your Eastern friends for a Christmas present.

Per pkt. 5c; oz. 20c; lb. \$2.50, postpaid

**Winter Pineapple**—This is the first of the Casabas introduced into America, and is the parent of a number of hybrids all of which excel it in excellence of flavor, but none equal it in keeping qualities.

Per pkt. 5c; oz. 25c; lb. \$2.50, postpaid

## MUSTARD

Mustard is not only used as a condiment, but the green leaves are used as a salad or cut and boiled like spinach. Sow as early in the spring as the ground will permit, in drills about eighteen inches apart, covering one-half inch deep. For succession, sow every few weeks until Autumn. Water freely.

**Chinese**—The leaves are twice the size of the ordinary white mustard, and the flavor is sweet and pungent.

Per pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00, postpaid

**White English**—Leaves comparatively smooth and deeply cut; color medium dark green. The plant is upright in growth, inclined to branch as it approaches early maturity and soon bolts to seed.

Per pkt. 5c; 2 oz. 10c;  $\frac{1}{4}$  lb. 15c; lb. 35c

**Yellow Seeded**—The seed is used extensively for spicing, pickling and other culinary and medicinal purposes. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 15c; lb. 35c, postpaid

**Fordhook Fancy (Ostrich Plume)**—Plants are of vigorous growth, and have beautiful dark green leaves which curve outward like fine ostrich plumes. It stands well, even during the hot summer months.

Per pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 45c; lb. \$1.25, postpaid

**Southern Giant Curled**—Leaves light green, frilled and much crimped at edge. Highly esteemed in the South for its vigorous growth and good quality.

Per pkt. 5c; oz. 10c; 2 ozs. 15c;  $\frac{1}{4}$  lb. 20c; lb. 65c



## MUSK MELON

**Culture**—Plant the seed in hills six feet apart each way, dropping ten to twelve seeds in a hill. After the plants begin to crowd and the striped beetles are pretty well gone, thin to four of the most vigorous plants in a hill. Give frequent but shallow cultivation, until the plants make runners so long that this is impracticable. Rich earth for the young plants is far better than manure, but if the latter must be used, see that it is well rotted and thoroughly mixed with the soil.

If the plants grow very rank, more and finer fruit will be secured by allowing the main branch to continue growing, but pinch off the end of each side branch after it has one fruit set. The quality of melons of all varieties is largely dependent upon conditions of growth and ripening. Unhealthy vines or unfavorable weather produces fruit of comparatively poor flavor.

### YELLOW FLESHED VARIETIES

**Burrell's Gem**—One of the most popular market melons. Melons are oblong, not deeply ribbed, well netted and about 4½ to 6 inches long. Flesh very deep, with an exceedingly small seed cavity. Flesh deep salmon and of excellent flavor.

Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25, postpaid

**Emerald Gem**—Small to medium size; skin deep green, generally smooth; flesh thick, rich salmon, not surpassed in richness and flavor. But few varieties are so nearly certain to produce uniformly good melons.

Pkt. 5c; oz. 20c; ¼ lb. 60c

**Edwards' New Perfecto**—Nearly round and densely covered with a hard gray netting; flesh very thick and of a beautiful salmon color, shading into green as it nears the rind.

Pkt. 5c; oz. 20c; ¼ lb. 45c; lb. \$1.25, postpaid

**Fordhook**—The most perfect cantaloupe. It is about the same size as Improved Jenny Lind, very thick flesh, of orange yellow, very small seed cavity, comparatively few seeds, flesh very solid and of very high flavor, flesh staying solid and firm after melon has become quite yellow.

Per pkt. 5c; oz. 20c; ¼ lb. 50c; per lb. \$1.50, postpaid

**Hearts of Gold or Hoodoo (Orange)**—A medium sized very uniform melon of fine grained flesh and sweetest flavor.

Per pkt. 5c; oz. 15c; ¼ lb. 55c; lb. \$2.00, postpaid

**Honey Dew**—An old French variety, requiring 150 days to mature and having a delicious flavor when thoroughly ripened. It has a smooth thin rind, a delicate yellow, and flesh blending from white near the rind to green. In short season localities should be started in a hot-bed. Pkt. 5c; oz. 25c; ¼ lb. 75c; lb. \$2

**Osage, or Miller's Cream**—The fruits are larger than those of the Emerald Gem; nearly round in form, but having the same distinct dark green skin, with lighter bands between the ribs, and thick, firm, orange flesh of fine quality. Per pkt. 5c; oz. 15c; ¼ lb. 40c; per lb. \$1.25, postpaid.

**Paul Rose (Petoskey)**—An oblong melon of the Osage type, but smaller. The fruits are deep green, slightly ribbed and fairly netted; flesh very thick, deep salmon color and of highest quality; seed cavity small, triangular shaped.

Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25, postpaid

### GREEN FLESHED VARIETIES

**Extra Early Hackensack**—This is a selection of the popular Hackensack, ripening fully ten days earlier. Melons of good size, heavily-ribbed and netted; thick light green flesh of fine flavor.

Per pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.50, postpaid

**Netted Gem, or "Rockyford"**—The melons are even and regular in size and form, nearly round, or slightly oval. They are always finely netted, and the skin is of a light golden hue when fully ripened. The flesh is light green in color, melting and luscious in flavor, and ripens close to the skin, so that there is but a very thin rind in a well-grown fruit.

Per pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00, postpaid

**Early Jenny Lind**—This is a leading market variety by reason of its extremely early ripening and prolific bearing qualities. The melons are of small size, quite flattened in form, heavily ribbed and netted.

Per pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00, postpaid

### MIXED MUSK MELON

Many of our customers prefer one mixture of seed that will produce early, medium, late green flesh and orange flesh varieties, thus producing a continuous table supply throughout the season from one small plot. This is composed of our best select strains and put together in a properly balanced mixture that will give ripe, luscious fruit throughout the season. Price: Pkg. 10c; oz. 15c; ¼ lb. 30c; lb. 90c, postpaid.

## MUSHROOM



**Pure Culture Mushroom Spawn**—By a newly discovered process of selection and grafting, the spawn is scientifically propagated, so that large, vigorous and finely flavored mushrooms are reproduced. Earlier, more productive and a marked improvement on wild spawn.

Mushrooms are easily grown in the cellar or in dark rooms where a temperature of from 50 to 65 degrees can be maintained. In making the bed, use fresh, clean, stable manure, without much straw. Before placing it in the bed, the manure-pile should be turned over a few times. The bed should have at least 10 inches of solid manure. Put this in, in two layers, and tramp each one down well. Test the heat of the manure with the thermometer and when the temperature is on the decline and between 90 and 100 degrees, insert pieces of Spawn, each about the size of an egg, 10 inches apart, and 2 inches deep. After ten days, spread on a layer of fresh, well-manured loam. If the temperature is right, Mushrooms should come up freely weeks after spawning.

Cultural directions, to be of any value, would be too lengthy to give here, but we will forward full directions for the planting and culture of spawn with each order.

**No. 7 BROWN (Bohemian)**—A good producer of heavy mushrooms.

**No. 8 CREAM WHITE**—A mammoth strain.

**No. 9 WHITE (Alaska)**—Popular market variety.

Pure Culture Mushroom Spawn with culture directions. Brick (about 1¼ lbs.), 35c; 5 bricks \$1.50; 10 bricks \$2.75, postpaid. Write for price in larger quantity.

**Bottle Spawn**—Of excellent quality but very perishable. Must be kept in cold storage until wanted for planting. Orders shipped from the storage plant at St. Paul as we do not carry this in stock. Qt. \$1.25, 12 qts. \$12. (If wanted by parcel post, add 15c per qt.)



## OKRA or GUMBO

Okra, or Gumbo--Cultivated for its young seed pods which are used in soups, or stewed and served like asparagus. It is highly esteemed in the south. Plant in hills about four feet apart, putting six to eight seeds in a hill, and after the plants are well started cut out all but two. The dwarf sorts can be planted much closer in hills, two to three feet apart, or in drills two feet apart, thinning the plants to about one foot apart in the row. Gather the pods when quite green and about an inch and one-half long.

**Perkin's Mammoth Long Pod**—The plant is dwarf growing even in size, and productive, maturing pods earlier than most sorts. The pods are long, slender, deep green and remain tender much longer than most sorts. Per pkt. 5c; oz. 15c; 2 oz. 25c; ¼ lb. 35c; lb. \$1.00

**Dwarf White**—The longest podded variety; the plants are two feet high and very productive. Produce pods long, greenish white, very thick and fleshy. Per pkt. 5c; oz. 15c; 2 oz. 25c; ¼ lb. 35c; lb. \$1.00.



## Bermuda and Sweet Spanish Onion Plants

It is recommended to plant the rows sixteen inches apart and the plants three to four inches apart in the rows. If planted in this manner it will take about 100,000 to the acre. An old-fashioned dibble can be used successfully in planting. Do not plant too deep. Plants are put up in bundles of about 100 and sixty bundles to a crate. Count not guaranteed.

### Prices, Postpaid

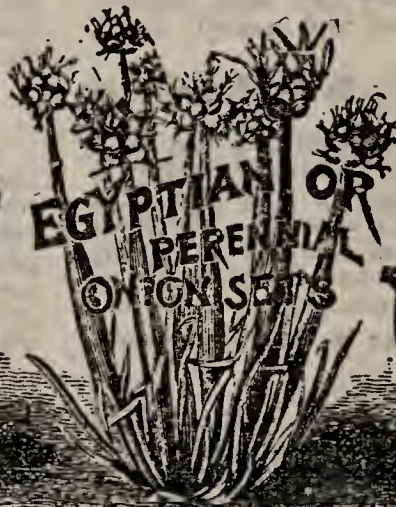
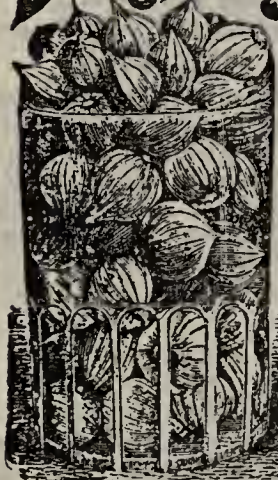
|                                 |        |                        |        |
|---------------------------------|--------|------------------------|--------|
| 1 bundle, about 100 plants..... | \$0.30 | 5 bundles.....         | \$1.00 |
| 2 bundles .....                 | .50    | 10 bundles.....        | 1.75   |
| 3 bundles .....                 | .65    | Crate, 60 bundles..... | 8.50   |

### ORDER EARLY

Will send plants when they are ready to plant.

TRUCKERS, MARKET GARDENERS and others using seed in quantity are entitled to special prices and should send for current prices, stating quantity and varieties wanted.

## BOTTOM ONION SETS



## POTATO ONION SETS



### BOTTOM ONION SETS

Small onions grown from seed that has been sown too thickly to attain a large size. The small onions (about ½ inch in diameter) thus obtained are planted out and are ready in a short time to pull as green onions for the table or bunched for the market. If left to stand they make ripe onions of the best quality, and come to maturity some six weeks earlier than a crop grown directly from the seed.

Per lb. 20c; 5 lbs. 75c, postpaid

### POTATO ONION

Valuable for bunching or an early crop. The smallest sets make fine bulbs of good size, while the larger ones produce a cluster of small to medium size bulbs. Light brown skin, mild white flesh. It is the earliest, most vigorous in growth and easiest to cultivate of all onions from sets. For the family garden, whether pulled green or as dry bulbs, they are most excellent.

Sold out

### EGYPTIAN or PERENNIAL TREE ONION

When once set out, without having the slightest Winter protection, these come up year after year. The bottoms divide, making several irregular shaped onions that are sweet and tender. The young sets grow on top of the stalks, and can be planted in the Fall. We cannot supply these sets after March 1st.

Per lb. 25c, postpaid

### SHALLOTS

Valuable for bunching or for an early crop. The smallest sets make fine bulbs of good size, while the larger ones produce a cluster of small to medium size bulbs. Light brown skin, mild, white flesh.

Sold out

For large quantities, write for prices, stating quantity wanted.

## GARDEN BOOKS

|   |        |
|---|--------|
| The Book of Shrubs, by Hottes.....            | \$3.15 |
| Wayside Marketing, by Arnold .....            | 1.65   |
| Practicable Vegetable Culture, by Wilkinson.. | 2.15   |
| Foundation Planting, by Johnson.....          | 3.65   |
| The Book of Perennials, by Hottes.....        | 1.65   |
| The Complete Home Landscape, by Jennings..    | 2.65   |

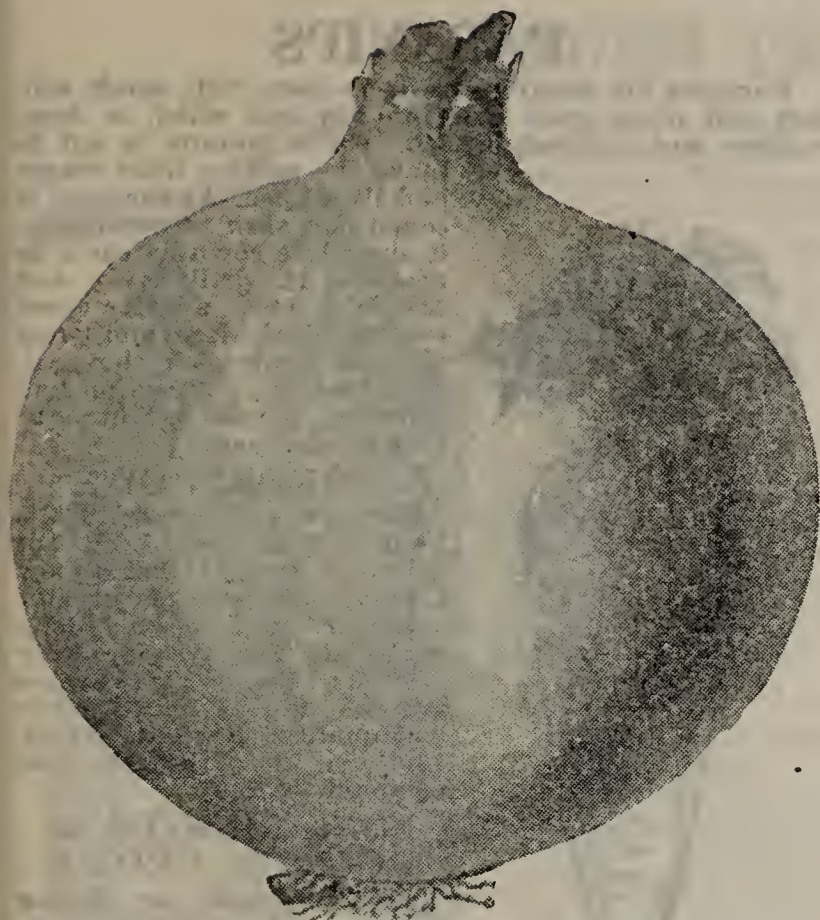
## 1001 Garden Questions Answered

By Prof. Alfred C. Hottes

A unique guide book of garden operations for each day, answering thoroughly and in an easily understood manner over 1,000 questions on the growing and care of flowers, fruits, vegetables, trees, shrubs, lawns, etc.; in fact, every phase of home gardening. 320 pages, well illustrated and carefully indexed. Paper, \$1.50; cloth, \$2.00

Send for booklets on books as space will not permit listing more.





## OREGON YELLOW DANVERS

### The Old Reliable

The reputation of this great onion goes forward unchallenged year after year as the most reliable yellow onion grown. There is no onion whose character and worth can be more accurately measured by the confidence it has instilled in the onion seed buying than the Oregon Yellow Danvers. It has no enemies as it is conceded to be the best for the Northwest. It stands paramount on its great keeping quality and is more extensively grown than any other onion in the northwest. With such pronounced merits as earliness, productiveness, excellent table quality, fine keeper, enormous yielder, it could hardly be other than popular. Order early.

Our seed is grown especially for us by the best onion seed growers in Oregon. No onion grower can afford to plant anything inferior when such seed can be obtained.

Pkt. 5c; oz. 20c; ¼ lb. 60c; lb. \$2.00

### AUSTRALIAN BROWN

Quick to mature; a good keeper; solid and heavy; an excellent onion for shipping. The skin is a light brown. Its solidity gives it great weight and a sack weighs several pounds heavier than a sack of other varieties. The onions are thin-necked and ripen very early in all soils. As the plant makes a very quick growth it matures the bulbs before the hot, dry summer weather sets in, and this in connection with the exceptional keeping qualities makes it a most profitable variety.

Per pkt. 5c; oz. 20c; ¼ lb. 60c; lb. \$1.75, postpaid

### WHITE BERMUDA or Crystal White Wax

This variety is rapidly becoming the most popular of the Bermuda onions. It is a clear waxy white onion, and has the delightful mild flavor of the Yellow Bermuda. Like the Yellow Bermuda, it is of a somewhat flat shape, the onions sometimes grow to the size of saucers. This variety sells on the market at from 25c to 50c per crate more than the Yellow Bermuda, and in Portland it has largely replaced all other onions during spring and early summer. Is very firm and solid, and is the mildest and earliest of all onions. It does not keep as well as the Yellow Bermuda; however, it is very popular. You can pull green onions sixty days after planting the seed, and matures in 115 days. Prices: Pkt. 5c; oz. 30c; ¼ lb. \$1.00; lb. \$4.00, postpaid.

### PRIZETAKER

A large Yellow Globe Onion of finest flavor, handsome shape and enormous size, many single onions having been raised to weigh three pounds or over. The Prize-taker grows always to a perfect globe shape with a bright straw-colored skin.

Per pkt. 5c; oz. 20c; ¼ lb. 50c; lb. \$2.00, postpaid

## ONIONS

**Cultivation**—Give the onions the first hoeing just skimming the ground between the rows as soon as they can be seen in the row. Hoe again in a few days, this time close up to the plants, after which weeding must be begun. This operation requires to be carefully and thoroughly done. The weeder must work on his knees astride the row, stirring the earth around the plants, in order to destroy any weeds that have just started. At this weeding or the next, according to the size of the plants, the rows should be thinned, leaving from eight to twelve plants to the foot. In ten days or two weeks they will require another hoeing and weeding similar to the last and two weeks later give them still another hoeing, and if necessary another weeding. If the work has been thoroughly done at the proper time, the crop will not require further care until ready to gather.

**Gathering**—As soon as the tops die and fall, the bulb should be gathered into windrows. If the weather is fine they will need no attention while curing, but if it is not they will need to be stirred by simply moving them slightly along the row. Cut off the tops when perfectly dry, about half an inch from the bulb and then after a few days of bright weather the onions will be fit to store for winter.

### RED WEATHERSFIELD

This is a standard variety planted all over America. It is of large size, very productive, and an excellent keeper. The color is deep purplish-red, and the flesh is white, moderately grained, and very firm. It is a mild onion, and has retained its popularity through a large number of years. You can pull green onions in 63 days, and matures in 150 days.

Prices: Pkt. 5c; oz. 20c; ¼ lb. 50c; lb. \$1.75, postpaid

### SWEET SPANISH

We recommend this new variety of onion very highly, and believe that it will be more than pleasing to those who plant it. It is a globe-shaped onion of bright yellow color, and mild in flavor, and grows a little larger than the Prizetaker. It is a good yielder and a splendid keeper. This is a fine variety for home or market use. Green onions can be pulled 65 days after planting the seed, and it matures in 145 days.

Prices: Pkt. 5c; oz. 25c; ¼ lb. 75c; lb. \$2.50, postpaid

### SOUTHPORT WHITE GLOBE

This is a most desirable medium early, or main crop variety. This variety yields abundantly, producing medium to large, handsome and fine-shaped clear white bulbs. The flesh is firm, fine-grained, quite mild in flavor, and is very attractive. The bulbs are globe-shaped, keep well, and are desirable for shipping. This is a good variety for home garden or market. You can pull green onions 65 days after planting the seed, and it matures in 140 days.

Prices: Pkt. 5c; oz. 25c; ¼ lb. 75c; lb. \$2.50, postpaid

### WHITE PORTUGAL, OR SILVERSKIN

The best known and most largely used white onion. Is flat on the bottom and thick toward the top; very hard and firm. An excellent keeper. Is largely used for white onion sets as well as for bulbs for the best market trade and also for pickles.

Per pkt. 5c; oz. 25c; ¼ lb. 75c; lb. \$2.50

### GRANDPA'S CONGLOMERATION ONION SEED MIXTURE

Turn back in thought to the days of your youth, when Grandpa and Grandma planted the vegetable garden. There was always a large corner in which a mixture of different kinds of onion seeds was planted on the theory that if one sort did not do well the other sort would, and in that way it happened always that there never was a shortage of onions. If the good housewife wished a mild white for salads, it was always found therein; if she wished a more pungent one, that was taken. If she wished a brown or yellow or red, or no matter what color, there they were, and with this in view we have arranged "Grandpa's Conglomeration Onion Mixture"; It contains all colors, shapes and sizes. A package of seed is sufficient to grow one or two bushels, an ounce from three to five bushels, and a pound is safe for 60 to 100 bushels or more.

Price: Big pkt. 10c; oz. 15c



## PARSLEY



Parsley succeeds the best on rich, mellow soil. The seed is even slower than parsnip in germinating and should be sown as early as possible in the Spring, in drills one to two feet apart and when the plants are well up thin to one foot in the row. When the plants are about three inches high cut off the leaves; the plant will then start a new growth of leaves which will be brighter and better curled and later, if these turn dull or brown they can be cut in the same way; every cutting will result in improvement.

**Plain, or Single**—Plain leaves, excellent flavor.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 50c, postpaid

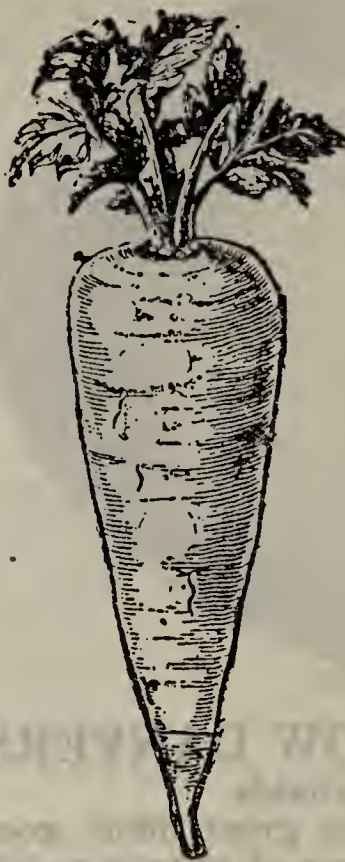
**Extra Curled Dwarf, or Emerald**—The moss-like leaves, of a handsome bright green color, are finely curled. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 70c, postpaid

**Turnip-Rooted, or Hamburg**—The edible portion is the fleshy root, which resembles a small parsnip, and is esteemed for flavoring soups, stews, etc.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 60c, postpaid

## PARSNIPS

Parsnips are usually grown on deep, rich, sandy soil, but will make good roots on any soil which is deep, mellow and moderately rich. Fresh manure is apt to make the roots a little coarse and ill shaped. As the seed is sometimes slow to germinate, it should be sown as early as possible in drills two and one-half feet apart, cover one-half inch deep and press the soil firmly over the seed. Give frequent cultivation and thin the plants to three or four to the foot.



### GUERNSEY

**Guernsey**—(Improved Half-Long)—The roots do not grow so long as the Hollow Crown, but are of greater diameter and more easily gathered. The roots are very smooth; the flesh is fine grained and of most excellent quality. Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 80c, postpaid.

### LONG SMOOTH, or HOLLOW CROWN

**Long Smooth, or Hollow Crown**—A great cropper, tender, sugary, and considered the best for general cultivation. Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 80c, postpaid.

## PEAS

For early peas the soil should be light and warm, but for general crop a moderately heavy soil is better. Fresh manure and very rich or wet mucky soil should be avoided, as they cause a rank growth of vine at the cost of the quality of the peas, furthermore such soil is often the cause of early sorts maturing unevenly.

Sow as early as possible a few of some early variety in warm, quick soil, prepared the fall before, planting in double rows six to eight inches apart and two and one-half to four feet between the double rows. The general crop can be delayed until later, but we have met with better success from sowing all the varieties comparatively early, depending for succession upon selecting sorts that follow each other in maturity.

The peas will give quicker returns if covered only one inch deep and where earliness is most important they may be treated in that way. Larger pods and more of them will be produced if the seed be planted in trenches three to six inches deep and covered with only one or two inches of soil. When the plants are five or six inches high fill the trench level with the surface. This will secure deep rooting, prevent mildew and prolong the bearing season. If the peas be covered to the full depth at first, or if water be allowed to stand in the trenches they will not germinate or grow well.

The wrinkled varieties are more sensitive to cold wet weather than the smooth seeded sorts but are of superior quality. All varieties growing more than one and one-half feet do better if staked up or brushed when four to six inches high. This support is usually given by sharpened branches of trees set between the double rows. The crop should be gathered as fast as it is fit for use. If even a few pods begin to ripen, not only will new pods cease to form, but those partly advanced will stop growing. Your own grown peas are by far the sweetest.

## THE BIG FOUR GARDEN PEAS

One pound of each, \$1.00, postpaid

### BLUE BANTAM

Bears abundantly long, handsome pods fully as large and equally as early as Gradus, while the vines require no staking! Is unequaled for combination of extreme earliness, superb quality, and unusual productiveness. The dwarf vigorous vines average fifteen inches in height and carry really enormous crops of large, deep bluish-green pods. The handsome pointed pods, generally borne singly, measure four to four and one-half inches long and are tightly packed with eight to ten extra large, deep bluish-green peas. These peas are not only large in size, but of most luscious flavor. The pods are ready to pick as early as American Wonder, while double the size; in fact, they average fully as large as Gradus! If sown thinly, say four inches between the seeds in the row, they will astound even experienced gardeners.

Per pkt. 10c; lb. 25c; 5 lbs. \$1.00, postpaid

### TELEPHONE

A tall-growing, late sort, three and a half to four feet in height, having pods of a very large size, containing six to seven large peas of delicious flavor. Continues in bearing for quite a long time.

Per pkt. 10c; lb. 25c; 5 lbs. \$1.00, postpaid

### LITTLE MARVEL

We are sure that as soon as our customers become acquainted with Little Marvel they will drop both Little Gem and Nott's Excelsior, popular as these two varieties are today. The vines, of dwarf even growth, average fifteen inches in height and are heavily set with fine pods, frequently borne in pairs. The pods average two and one-half inches in length, are square at the bottom and well filled with six to seven quite large, deep green peas. The peas are ready for the table fully as early as American Wonder or Nott's Excelsior, while the pods are larger and the vines produce a much heavier crop. All who desire a fine early crop of the choicest wrinkled peas will be delighted with Little Marvel.

Per pkt. 10c; lb. 25c; 5 lbs. \$1.00, postpaid

### GRADUS

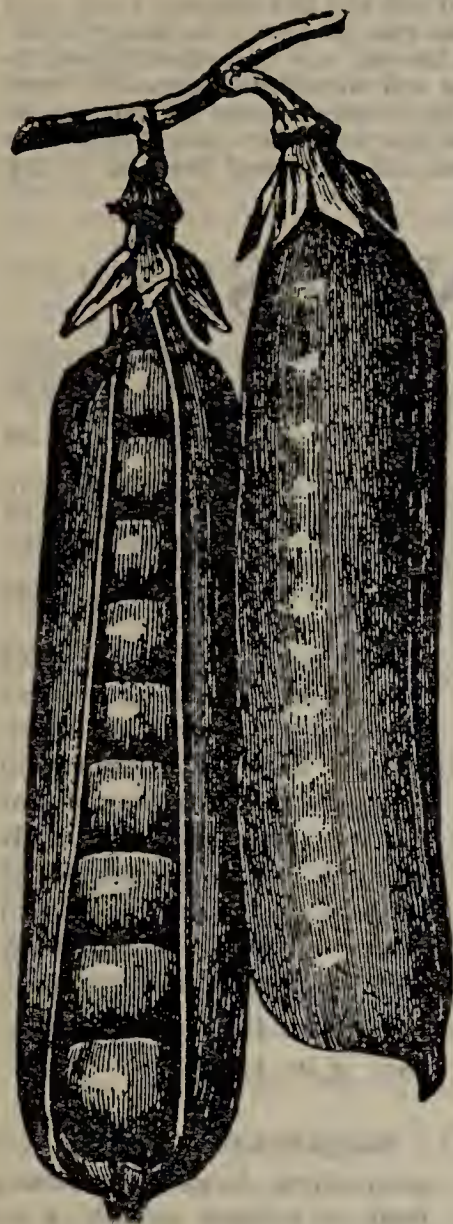
This extra early, wrinkled pea bears pods of large size, and combines quality with earliness. It is very hardy; can be planted fully as early as the smooth peas; growth, vigorous and healthy; vines  $2\frac{1}{2}$  feet in height; very prolific. The quality and flavor are delicious, and the peas remain tender and sweet for a long time. These peas are planted by market gardeners around the vicinity of Portland more than any other kind.

Pkt. 10c; lb. 25c; 5 lbs. \$1.00, postpaid

For List of Standard Varieties see next page.



## GARDEN PEAS—Continued



BLUE BANTAM

**Alaska**—Also called "Earliest of All"! The vines grow from 20 to 30 inches in height, bearing well-filled medium-sized pods. Matures practically the entire crop at one time. Most popular first-early pea for canning.

Per pkt. 10c; ½ lb. 15c; lb. 25c; 5 lbs. \$1.00

**Alderman**—Large podded, fine flavor. A splendid large podded main crop pea, growing about five feet high. The pods are larger than the Telephone, are dark green, and are well filled with large wrinkled peas of fine flavor.

Pkt. 10c; ½ lb. 15c; lb. 25c; 5 lbs. \$1.00, postpaid

**Bliss' Everbearing**—The vines are stout, of medium height, about two and one-half to three feet, bearing at the top six to ten good sized pods, about two and one-half to three inches long. If these are picked as they mature and the season and soil are favorable, the plant will throw out branches bearing pods which will mature in succession, thus prolonging the season. The peas are large and wrinkled, tender, of superior flavor and preferred by many to any other sort.

Pkt. 10c; ½ lb. 15c; lb. 30c; 2 lbs. 50c; 5 lbs. \$1, postpaid

**Champion of England**—A standard, very productive, main crop variety, universally admitted to be one of the richest and best flavored of the late peas. The vines are tall, about four to five feet high. The peas are large, about three inches long. The seed is light green and wrinkled. We consider this variety one of the best of its season, either for the home garden or for market gardening use.

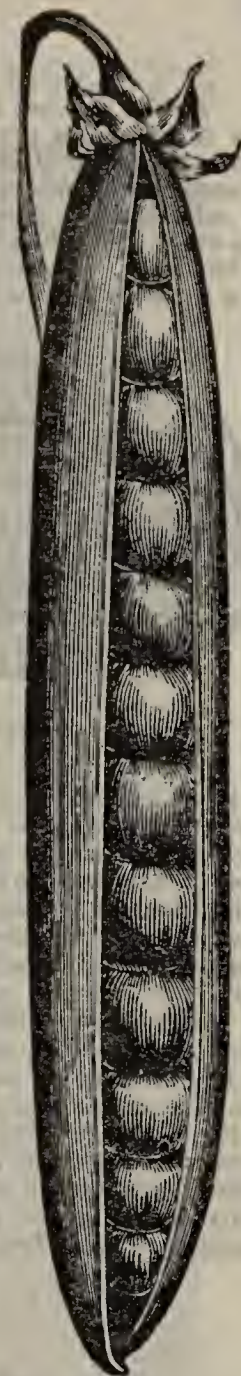
Pkt. 10c; ½ lb. 15c; lb. 25c; 2 lbs. 50c; 5 lbs. \$1.00, postpaid.

**"Dwarf Telephone"**—The vines, though growing only about eighteen inches in height, are very stout, and generally bear a good crop of large, well-filled pods. The pods average five inches in length, containing seven to nine large peas of a light green color, which are tender and sweet.

Per pkt. 10c; ½ lb. 15c; lb. 30c; 5 lbs. \$1.00, postpaid

**Improved Strategem**—Vines of strong growth, with large foliage, but only eighteen inches in height, and do not need any support. Pods of large size, well filled with large dark green peas of rich, sweet flavor. One of the very finest.

Per pkt. 10c; ½ lb. 15c; lb. 25c; 5 lbs. \$1.00, postpaid



ALDERMAN

### LAXTONIAN

A new, early, dwarf, robust, large podded pea of superior excellence, often referred to as "Dwarf Gradus," and is said to surpass "Gradus" in yield and quality, with the added advantage of dwarfer growth, averaging 16 inches. The large pods are well filled, holding 8 to 10 peas. "Laxtonian" is so highly recommended that you should give it a trial.

Per pkt. 10c; ½ lb. 15c; lb. 25c; 5 lbs. \$1.00, postpaid

### THOMAS LAXTON

Extra Early and Fine Quality

Thomas Laxton Peas are very similar to Gradus in every way except the shape of the pods, the ends of which are square, and the pods and vines are a darker green. It is nearly or quite as early as Gradus, and the large wrinkled, dark green peas are sweet, tender, delicious, and unexcelled in quality by any of the late varieties. The vines grow about three feet high.

Pkt. 10c; ½ lb. 15c; lb. 25c; 5 lbs. \$1.00, postpaid

### WORLD'S RECORD

World's Record is an English variety which has proved to be perfectly adapted to the Northwest. Our seed has been grown in this locality for several seasons, and is thoroughly acclimated. The vines are semi-dwarf, growing about three feet high, and the yield, size and quality of the peas is wonderful considering its extreme earliness. The pods are large, dark green, of the Gradus type, and are filled with eight or ten large wrinkled peas, sweet and of fine flavor.

Per pkt. 10c; ½ lb. 15c; lb. 25c; 5 lbs. \$1.00, postpaid

### SWISS PEAS

A flat or 3-cornered variety of excellent quality for soup. Insects do not trouble this variety.

Pkt. 10c; ½ lb. 15c; lb. 25c; 5 lbs. \$1.00, postpaid

### EDIBLE PODDED PEAS or SUGAR PEAS

This class of peas is not generally known in this country, but is much used abroad. The sweet, brittle and succulent pods have none of the tough inner lining found in ordinary varieties of garden peas; they are used in the same way as snap or string beans, and are excellent also for pickles.

Pkt. 10c; ½ lb. 15c; lb. 25c; 5 lbs. \$1.00, postpaid

### MAMMOTH MELTING SUGAR

This is one of the best-known of all edible-podded peas. The vines grow luxuriantly and reach a height of 6 to 7 feet. The pods are borne in great profusion all over the vine and they should be gathered when the seeds are just beginning to form. They are broken in pieces the same as string beans and make a delicious and palatable dish.

Per pkt. 10c; ½ lb. 15c; lb. 25c, postpaid

### GIANT LUSCIOUS EDIBLE POD

The pods, which are five to six inches long, are very fleshy, curved or scimitar shaped and of light green color. When young the pods are very tender and free from strings and when cooked are of superior quality and delicious flavor. The vines average about four feet high and are vigorous and productive.

Pkt. 10c; ½ lb. 15c; lb. 25c, postpaid

### DWARF GRAY SUGAR

Grows 18 inches high and produces a heavy crop of small flat pods, 3 inches long. The pods are gathered, broken and cooked like string beans when the peas begin to develop in the pod.

Per pkt. 10c; ½ lb. 15c; lb. 25c, postpaid



## PEANUT CULTURE

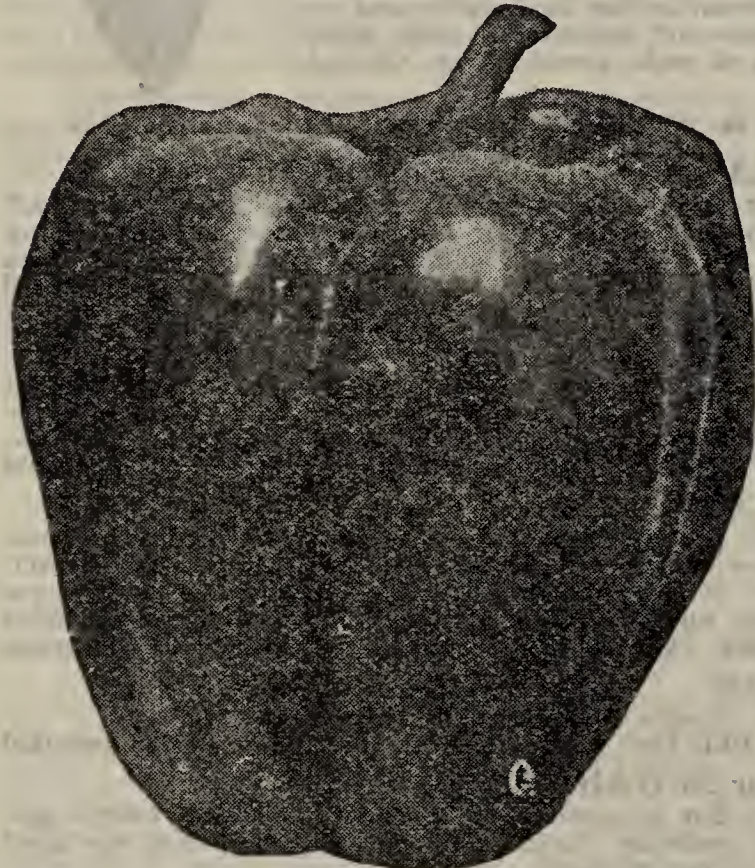
As the Peanut is a tender, warmth-loving plant the seed should not be planted until the soil has become warm and the Maple trees are out in full leaf. They succeed best in light, easily worked soil but can be grown in heavy, well-drained ground if kept well cultivated. When planting remove the shells, planting the kernels one in a place fifteen to twenty inches apart in the row. The cultivation is the same as for Bush Beans and the soil should be frequently hoed or cultivated to promote strong, rapid growth until the plants commence to flower. The flowers appear at the base of the stalk and when they appear loose earth should be hilled up around the stalks so that the nuts may bury themselves in the soil. When the foliage is touched by frost, lift or pull up the plants with the nuts attached and hang up to dry in a cool, airy room or shed.



## PEPPER

Peppers are used very extensively as a condiment. In Mexico the hot varieties are eaten raw as we would eat radishes, but the greatest use is for seasoning other dishes. The large, thick-fleshed, sweet varieties are eaten more extensively farther north and are served in various ways, green or ripe, with vinegar and salt, like tomato salad, or made into mangoes, by cutting one side, removing seeds and filling with chow chow pickles.

The culture of peppers is the same as for egg plant and the plants need quite as much heat to perfect them. Guano, hen dung, or any other bird manure hoed into the surface soil when the plants are about six inches high, will wonderfully increase the product and also improve the quality of the fruit.



**Chinese Giant**—This standard variety is larger than "Ruby King." It is very prolific for so large a pepper. The productiveness may be increased by pinching off the first or "King blossoms." The fruit grows 4 to 5 inches broad on top and of equal length, and quite uniform in size; the flesh is unusually thick, mild flavor and makes a very fine salad sliced and served like tomatoes. The color is green turning to glossy scarlet when ripe.

Per pkt. 5c; ½ oz. 40c; oz. 75c; ¼ lb. \$2.00

**Bell or Bull Nose**—Do not confuse this with the Chinese Giant. It is similar in shape but scarcely more than half as large. It is much more prolific and a very desirable variety for the home garden.

Pkt. 5c; oz. 60c; ¼ lb. \$1.75; lb. \$6.00, postpaid

## PEANUTS

**Jumbo** (See illustration)—The plants produce a large quantity of nuts, adapted for culture in our northern climate, especially in light or sandy soils.

Pkt. (10 pods) 10c; ½ lb. 30c; lb. 55c; 2 lbs. \$1.00

**Spanish**—This is an excellent forage plant for light land in hot, dry seasons. The tops are cut and cured for hay just before frost. The plants also set a large crop of the small nuts, which make an excellent fattening food for hogs.

Oz. pkt. 10c; ½ lb. 20c; lb. 30c; 2 lbs. 55c; 5 lbs. \$1.25



**California Wonder**—This new variety resembles Chinese Giant in shape, but has much thicker flesh. The fruit will average 4 inches in diameter at the top, tapering slightly. It matures its fruit somewhat earlier than Chinese Giant and is very prolific. Color glossy dark green, turning to crimson.

Per pkt. 10c; ½ oz. 40c; oz. 75c; ¼ lb. \$2.00.

**Neapolitan**—Very early and productive; large and sweet; fruit of upright growth, 4 to 4½ inches long by 2 inches in diameter.

Per pkt. 10c; oz. 30c; ¼ lb. 85c.

**Pimiento—Perfection**—This is a sweet Pepper—one which you will enjoy eating in salad, either fresh or canned. Gardeners are planting Pimiento largely. Quite large, top shaped, very thick flesh and wonderful mild flavor.

Per pkt. 10c; oz. 60c, postpaid

### OTHER PEPPER SORTS

**Cayenne**—Long red; very hot.

**Tabasco**—Hottest of all.

Per pkt. 10c; ½ oz. 35c; oz. 60c; ¼ lb. \$1.75

**Red Chili**—Good hot pickling.

Per pkt. 10c; ½ oz. 30c; oz. 50c; ¼ lb. \$1.60

### MIXED PEPPERS

**Mixed Peppers**—A great many varieties mixed. Space will not permit to name them all.

Pkt. 10c; oz. 40c; ¼ lb. \$1.00, postpaid

PEPPER PLANTS—See page 34

## POTATOES

Write for special prices for larger quantities than listed.

### DATE OF SHIPMENT

Potatoes will not be shipped until in our judgment there will be no danger from freezing. Price, 5 lbs. 60c; 10 lbs. \$1.00, postpaid. These prices are for 1st, 2nd and 3rd zone only.

## AMERICAN WONDER

Vigorous vine, profuse bloomer, heavy setter. Used by truck gardeners for early crops. The elongated shape meets the Pacific Coast market demands.

### "EARLIEST OF ALL"

Is a shallow-eyed white skinned variety of vigorous growth. The tubers are smoother and have fewer eyes than most other varieties. While it is a very early potato it is also a good keeper.



## PUMPKINS

Pumpkins are not so particular in regard to soils as melons or cucumbers, but in other respects are cultivated the same, though on a larger scale. They are generally raised between hills of corn, but may be planted with success in fields by themselves. The pumpkin more properly belongs to the farm than the garden, especially as it really mixes with and injures the quality of the finer squash.

### SMALL SUGAR, or NEW ENGLAND PIE

This variety is small but of most excellent quality for pies. The fruits are deep orange, 8 to 10 inches in diameter, round or somewhat flattened and slightly ribbed. The flesh is rich deep yellow, fine grained and very sweet.

Per pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 20c; lb. \$1.00, postpaid

### CONNECTICUT FIELD, or "BIG TOM"

Vines of strong, vigorous growth and wonderfully prolific. Fruits will average fifteen to twenty inches in diameter; round or slightly oval in form. Smooth, hard, reddish-orange skin, slightly ribbed, with rich orange-yellow flesh. Frequently grown among corn to make a crop of pumpkins for feeding to dairy stock.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c, postpaid

### "KING OF THE MAMMOTHS"

This is the very best genuine strain of the true Mammoth Pumpkin. Fruits grow to enormous size, sometimes reaching two feet or more in diameter, and from one hundred to two hundred pounds in weight. Salmon-orange skin, very thick, bright-yellow flesh, which is fine-grained, tender and of excellent quality for pies. To raise the largest fruits, vines should be allowed ample space in which to grow—only one plant should be allowed to grow in a hill, and only the best fruit left on the vine.

Per pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00, postpaid

### WINTER LUXURY

The best flavored pie pumpkin grown; enormously productive; excellent keeper; medium size; color, golden-russet, finely netted; flesh, deep golden, sweet, tender and very thick; none better.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00

### LARGE CHEESE

Large, round, flattened fruits, with creamy-buff skin; averages two feet in diameter. An excellent keeper; it has thick flesh of extra fine quality.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c, postpaid

### JAPANESE

Similar in size and form to the well-known Cushaw, but the skin is a deep green, with dark stripes, turning to a rich golden-yellow. Fruits mature early, the large neck is solidly meaty, and seeds are marked with curious indentations, resembling the characters of the Chinese alphabet. Flesh deep yellow, of fine quality.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00, postpaid

### GOLDEN OBLONG

Very hardy and productive, pumpkins fifteen to twenty inches in length and eight to ten inches in diameter. Skin of a rich golden orange, thin but tough, making it almost as good a keeper for Winter as the hard-shelled squashes. Flesh is a light golden-yellow, of very rich, fine quality.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00, postpaid

### KENTUCKY FIELD

Fruit flattened, the diameter being two or three times more than the length. Skin mottled light green and yellow, changing to rich cream color as it matures; flesh tender and of excellent quality.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c, postpaid

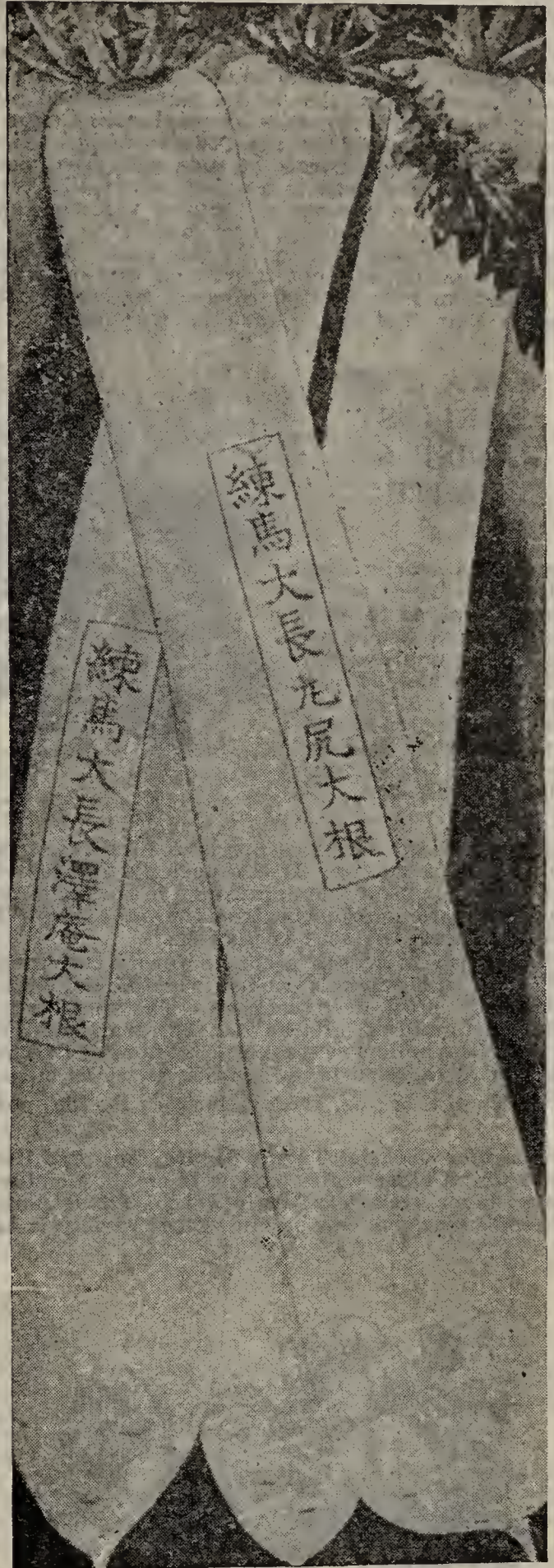
### WHITE CUSHAW

A popular crooked-neck variety with a hard creamy-white shell. Fruits two feet in length, with long, solidly-meaty neck; seeds are all located in the lower bulb-like end. Thick flesh of fine quality.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00, postpaid

**PUMPKIN SEED MIXED**—All varieties mixed; very popular. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 60c, postpaid

## JAPANESE RADISHES



### Radish—Nerima-Long

Nerima Long (Mikado)—"Nerima" is the name of the province of production, near Tokyo, Japan. This is a most valuable one, large and long (as long as 3 feet), and the end of it is round in form, snowy white and bright color and very fine test with sweet flavor. Nerima can be used in all styles of cooking and pickle; hardy and good keeper. We have had long experience of production of Nerima successfully and we are earnestly presenting this to all good farmers and garden lovers.

Per pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 60c, postpaid

Our Mail-Order Trade, growing steadily from year to year, is one result of your confidence in us and our confidence in you. No business can be truly successful unless the transactions are mutually profitable. Each season we strive to render better service.

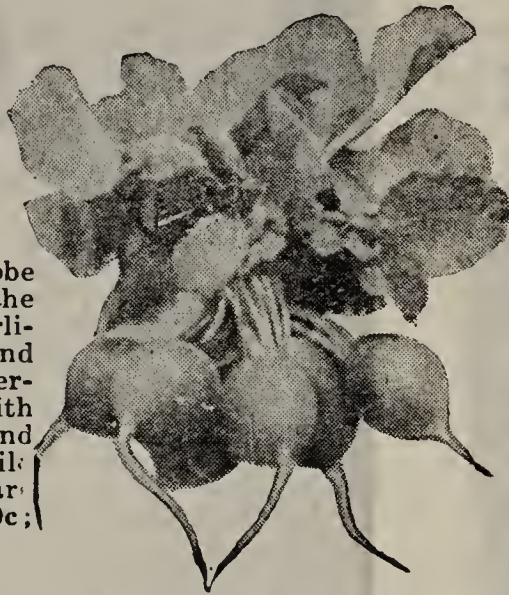


# RADISHES

For forcing, sow in hotbeds or under glass in rich, sandy soil, made perfectly level. Scatter evenly over the surface from sixty to one hundred and fifty seeds to the square foot and cover with one-half inch of soil sifted on, and attend carefully to the watering and airing. If the bed is a good one, the whole crop can be marketed in twenty-one to forty days after planting. For open ground culture, sow on rich, sandy soil as soon as it is fit to work in the spring, in drills twelve inches apart and thin out the plants, if necessary, to prevent crowding. A good dressing of nitrate of soda will greatly stimulate growth and insure tender, brittle roots. Successional sowings from one week to ten days apart will keep up a supply. After the hot weather of summer begins, it is better to sow the summer and winter varieties, as they do not become tough and stringy nor pithy so quickly as the early sorts. Radishes are subject to root maggots, which make them useless for culinary purposes. We know of no certain remedy for this pest. We have found that the best preventive measures are to avoid the use of rank manure, and not to sow on ground where radishes, turnips or cabbages were grown the year previous. We have been very careful to secure the very best seed possible, and there is none sold under other names which is better than that of the varieties we offer.

## SAXA, THE EARLIEST RADISH ON EARTH

Saxa is a scarlet globe radish developed to the highest point as to earliness, uniform shape and high eating quality. Perfectly globe shaped with bright deep red skin and white solid flesh very mild in flavor. The tops are short. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c.



**Crimson Giant**—A fine, bright-red radish, growing quickly to a large size. It is especially fine for bunching for early market from plantings in the open ground, being ready to market in from twenty-five to thirty days from time the seed is planted.

This radish is a deep globe in form; two inches in depth; one and one-half inches in diameter, with thin, tender skin of a deep crimson. The flesh is purest white, crisp, and of mild flavor. The roots are entirely free from the hollow center or pithy fibre of overgrown, small, extra early sorts, even when twice as large!

Per pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid

**Sparkler (Scarlet Turnip White Tip)** The Best for the West—Most attractive small round roots with bright scarlet top, a clear white base, and small, slender taproot. The juicy flesh is pure white in color and of agreeably snappy flavor. Scarlet Turnip White Tip is most popular with many market gardeners who grow for an early and choice market. Our strain of this variety is extra fine.

Per pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

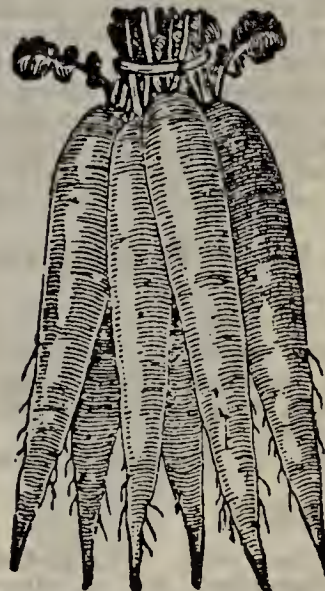


FRENCH BREAKFAST

**French Breakfast**—Is a beautiful radish of true oblong or olive shape. The color of the skin is bright carmine, shading to clear white in the lower portion. The flesh is white, firm and crisp; juicy, mildly pungent, and tender. It is well adapted for forcing in the greenhouse and hotbed. One of the leading early varieties for market use or home growing. Pkt. 5c; oz. 10c; 4 ozs. 25c; ½ lb. 40c; lb. 80c, postpaid.

**White "Icicle"**—The finest and longest of the very early pure white varieties. Planted in spring and the radishes are ready for use in twenty to twenty-five days. Their long, slender form and pure paper-white skin are most attractive when bunched for market. This radish is not only crisp and tender when young, but retains these qualities until the roots attain large size, so that it will remain in fine condition longer than any other first-early variety. It is excellently adapted for forcing purposes or successive sowing in the open ground, and gives a continuous supply of tender, crisp radishes throughout the season.

Per pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00, postpaid



**Early Long Scarlet Short Top**—The finest strain of this most popular radish. The long, slender, handsomely-colored roots are most attractive in appearance. They are ready in about twenty-five days; crisp, brittle and of choicest quality. They reach a length of five to six inches, growing half out of the ground. Per pkt. 5c; oz. 10c; ¼ lb. 25c; per lb. 75c, postpaid.

**Long Black Spanish**—Black skin, white flesh. Per pkt. 5c; oz. 10c; ¼ lb. 30c; per lb. \$1.00, postpaid.

**Round Black Spanish**—The favorite winter Rettig of the United States.

Per pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00

**White Strasburg**—A fine solid summer radish of large size. Per oz. 10c, postpaid

**California Mammoth White Winter**—Long; of large size. Per pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00, postpaid

**Round Scarlet China**—Extra fine round roots for winter.

Per pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.50, postpaid  
**Chinese Rose, or Scarlet China**—Excellent; good keeper.

Per pkt. 5c; oz. 10c; ¼ lb. 30c; lb. 90c, postpaid  
**New White Chinese**—Best for autumn; of immense size.

Per pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25, postpaid

## MIXED RADISH SEED

All kinds, colors and styles. A great variety; they will become ready for the table early, medium and late. You always have some that are just right, sweet and juicy. This mixture is for a small garden, where space is limited, and one sowing does for the whole season.

Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 50c, postpaid

## TRY THIS

Plant the little round radishes in the same row at the same time with beets or carrots. The radishes will break the way for the beets and carrots and will be ready for pulling by the time they need the room.



## Rhubarb or Pie Plant

**Culture**—Rhubarb succeeds best in deep, somewhat retentive soil, and the richer this is and the deeper it is stirred the better. Sow in drills an inch deep, and thin out the plants to six inches apart. In the fall transplant into very highly-manured and deeply-stirred soil, setting them four to six feet apart each way, and give a dressing of coarse manure every spring. The stalks should not be plucked until the second year, and the plant never allowed to exhaust itself by running to seed. Per pkt. 5c; oz. 15c; 2 oz. 25c;  $\frac{1}{4}$  lb. 40c; lb. \$1.50. Rhubarb roots, by express, not prepaid, 10c each; \$1.00 per doz; by mail, prepaid, 15c each; \$1.50 per doz. Write for special quotations on large quantities.

## SPINACH



Should be planted in very rich ground, the richer the better. Sow in drills 12 to 18 inches apart, and begin thinning out plants when the leaves are an inch wide. All should be cut before hot weather, or they will be tough and stringy. For early spring use sow early in autumn and protect plants with light covering of leaves or straw, or plant as soon as land can be worked in the spring. Under favorable conditions, leaves may be large enough for eating in eight weeks.

**King of Denmark Spinach "Antvorskov"**—This new variety of Spinach will eventually replace all others for spring planting, as it is very slow to go to seed, continuing to grow and hold its fine quality for weeks after all other sorts have gone to seed. It makes a very quick and low growth, producing an abundance of dark green leaves which are of large size and very much crumpled. It is ready for use as soon as other varieties of spinach and the leaves hold up remarkably well after being cut. The quality is excellent and we consider it one of the most valuable additions to the vegetable varieties that has been made in recent years, both for growing in the home garden and for market.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 50c; 5 lbs. \$2, postpaid

## NEW ZEALAND SPINACH (*Tetragonia Expansa*)

While this is not a member of the Spinach family proper, it may well be classed as such, since it furnishes an abundance of delightful "greens" throughout the summer and right up to cold weather. Both the leaves and the stalks of the plant are very fleshy and extremely brittle and of the finest quality when cooked.

Do not sow seed until May 1st or when the soil is fairly warm, as it is susceptible to cold and will not germinate in cold soil. Plant in rows 3 ft. apart and thin the plants to stand 2 feet apart in the rows. Soak the seed before sowing.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.15

## SQUASH

The Squash is one of the most nutritious and valuable of all garden vegetables. The summer varieties come to the table early in the season, while the winter sorts can be had in perfection from August until the summer varieties are again in condition. Few farmers appreciate the value of winter squash as food for stock. We think an acre of squash, costing no more to cultivate and much less to secure, will give usually as much food available for feeding stock as an acre of corn, and we strongly urge our readers to try a "patch" for this purpose.

**Culture**—Squash plants are very tender and sensitive to cold, and planting must be delayed until warm weather. The general methods of culture are the same as those given for cucumbers and melons, but squash is less particular as to soil. The summer varieties should be planted four to six feet apart each way, and the winter sorts eight or ten. Three plants are sufficient for a hill. In gathering the winter sorts care should be taken not to bruise or break the stem from the squash as the slightest injury will increase the liability to decay.



## TABLE QUEEN, "Des Moines"

Called Danish Squash on Portland Market

Market gardeners have found it their best seller. The enthusiasm of customers entitles it to the place among Squashes accorded to "Golden Bantam" in Sweet Corn. In size Table Queen equals a fair sized husked cocoanut and a half, baked, serves one person amply. This avoids the waste often resulting from the use of larger varieties. The shell is unusually thin and it does not require over twenty minutes for baking or boiling. A good way to prepare is to cut in half, place a lump of butter in one half, top with the other and then bake whole. This Squash is ready before the Hubbards and yet stores equally well. The color is dark green changing to bright golden after picking and storing. The meat is dry and mealy. It yields enormously, a few hills furnishing an ample supply for a good sized family. Introduced by Vaughn Seed Store.

Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 50c; lb. \$1.50

## Salsify or Vegetable Oyster

**Culture**—It succeeds best in a light, well-enriched soil which should be stirred to a good depth. Coarse and fresh manure should be avoided, as it will surely cause the roots to grow uneven and illshaped. Sow early and quite deep, giving the general culture recommended for parsnips. The roots are perfectly hardy, and may remain out all winter, but should be dug early in spring, as they deteriorate rapidly after growth commences. Store a quantity for winter use in a pit or in a cellar packed in damp earth or sand.

**Sandwich Island Mammoth**—This grows uniformly to an extra large size, averaging fully double the size and weight of the roots of the old variety. The roots, notwithstanding their extra large size, are of very superior quality and delicate in flavor.

Per pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 50c; lb. \$1.75, postpaid

## SPINACH

**Victoria**—The foliage is heavy, the broad, dark-green leaves being of the true Savoy appearance, and of the finest quality. It remains in prime condition from two to three weeks after nearly all other varieties have run to seed. Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 20c; per lb. 50c, postpaid.

**Thick-Leaved Round**—Produces large, thick dark-green leaves, somewhat crumpled.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 50c, postpaid

**Norfolk Savoy-Leaved (Bloomsdale)**—The leaves are numerous, curled and wrinkled.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 60c, postpaid

**Long Standing Prickly**—This variety is an improved strain of the long standing type of spinach that matures a little later than the round seeded sorts. It is usually planted in the Fall, but is also well adapted for Spring use. Sometimes called Prickly Winter.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 50c, postpaid

**Long-Standing**—Leaves large, thick, fleshy and crumpled. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 50c, postpaid



## TABLE SQUASHES

### MAMMOTH WHITE BUSH SCALLOP

The fruit is a beautiful, clear waxy-white, instead of the yellowish-white so often seen in the old Early White Bush Scallop, and is superior to that variety in size and beauty. The handsomest of the scalloped squashes. Per pkt. 5c, oz. 10c; 2 oz. 15c; ¼ lb. 25c; lb. 80c, postpaid.

### GIANT CROOKNECK

This strain is equally as early as the common small-fruited variety, while the squashes grow to a much larger size, measuring from eighteen inches to two feet in length. Per pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00, postpaid.

### BURPEE'S BUSH FORDHOOK SQUASH

In this new true bush type the plants can be grown much more closely together. The fruits are rather shorter and thicker than those of the running type; they are also thicker-fleshed, and have a smaller seed cavity. They are unsurpassed for baking, frying, or making pies, while stored in a dry place they will keep in good condition until the following June.

Per pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.50, postpaid

### BURPEE'S FORDHOOK SQUASH

This is the most desirable running variety for either summer or winter use. The vines are of strong, vigorous growth and wonderfully productive. Fruits oblong in form, eight to ten inches in length, slightly rigid, smooth, thin, yellowish skin, flesh very thick and of a light straw-yellow. Either for baking like sweet potatoes or making pies during the winter, the quality is unsurpassed.

Per pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.50, postpaid

### BANANA

The squash grows from one to two feet in length. The skin varies from a bright yellow to a dark olive green. Flesh firm and solid, of beautiful orange-yellow and excellent quality. It keeps from one season until another. When quite young it is excellent to cook as a marrow.

Per pkt. 5c; oz. 20c; ¼ lb. 50c; lb. \$1.50, postpaid

### "THE DELICIOUS"

The squashes weighing from five to ten pounds, vary both in color and form, but are uniformly delicious in flavor and splendid winter keepers. The dark-orange flesh is very thick and fine grained.

Per pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00, postpaid

### DELICATA

A small-fruited variety, suitable for both summer and winter use; oblong, slightly ribbed, with orange-yellow skin, striped with dark-green. Flesh thick and solid. Cooks dry, and is of rich flavor.

Per pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00, postpaid

### BOSTON MARROW

A large fruited, hard-shelled sort, for winter use, having bright orange skin and deep orange flesh. Vines of strong running growth, very productive; fruits thickish-oval.

Per pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00, postpaid

### COCOZELLE BUSH

This is also known as Italian Vegetable Marrow. The oblong fruits measure 12 to 16 inches in length. The skin is deep green, marbled with yellow and dark green stripes. A very productive variety. Per pkt. 10c; oz. 25c; 4 ozs. 50c; ½ lb. 80c; lb. \$1.35, postpaid.

### COCOZELLE VINING

Same price as above.

### ZUCHINI

Similar in all respects to Bush Cocozelle except the fruits are mottled dark and light green, giving them a greenish-gray appearance. Per pkt. 10c; oz. 25c; 4 oz. 50c; ½ lb. 80c; lb. \$1.25, postpaid.

### VEGETABLE MARROW

This is a most important vegetable in the English market, but little known in this country. The fruit is generally eaten when less than half grown, as the flesh is then very tender and marrowy.

Per pkt. 10c; oz. 20c; ¼ lb. 50c; lb. \$1.75, postpaid

### MIXED SQUASH SEED

All sorts, shapes and colors. Very popular.

Per pkt. 5c; oz. 15c; ¼ lb. 25c; lb. 75c, postpaid



## THREE TYPES OF THE MOST POPULAR WINTER SQUASH

### TRUE HUBBARD

This is the well-known winter squash, now grown so largely throughout the country. Vines of strong running growth; fruits large, olive-shaped, with dark-green skin and very rich flesh. An excellent keeper and of splendid quality. Our strain is extra fine (see the illustration, from photograph, above).

Per pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25, postpaid

### RED, or GOLDEN HUBBARD

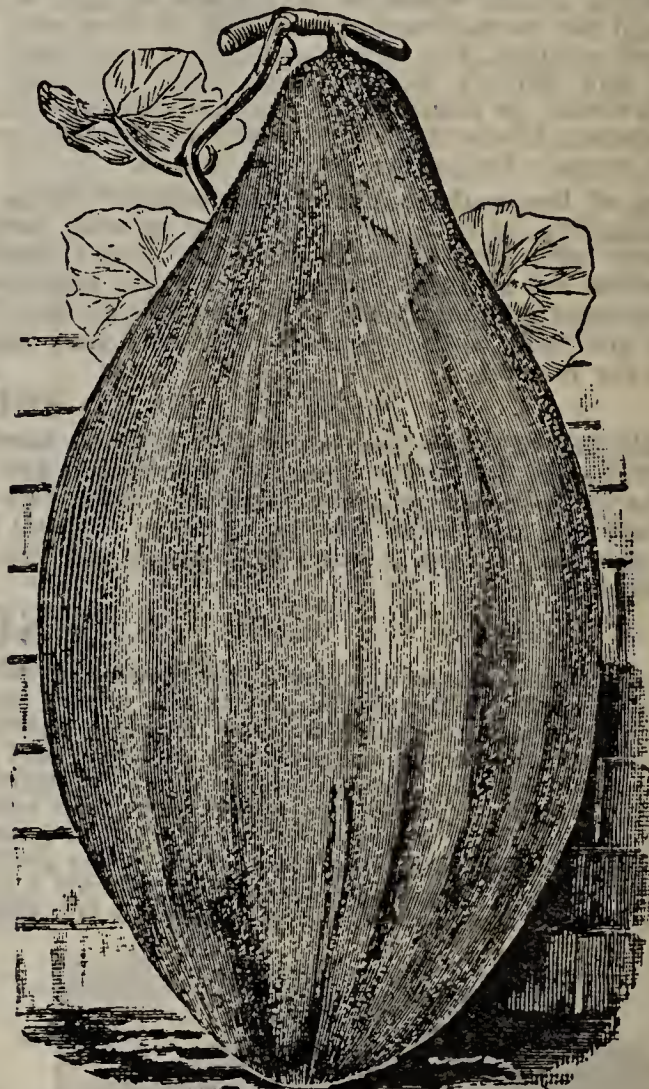
The heavily warted skin is of rich orange-yellow, turning to deep salmon-red when ripened. It is equally as productive and fine in quality as the original Hubbard Squash.

Per pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25, postpaid

### "KITCHENETTE" (Hubbard)

A small edition of the Hubbard Squash developed by inbreeding and introduced by the Minnesota Experiment Station. It was named "Kitchenette" because it is the smallest Hubbard.

Per pkt. 10c; oz. 25c; ¼ lb. 85c; lb. \$3.00



### MAMMOTH WHALE

This is the "Jumbo" of the squash family, and creates great attention wherever grown or placed on exhibition. It is an extra large-fruited sort, quite distinct in form and appearance. The squashes grow from two and a half to three feet in length, with a slight neck at the stem end. The large seed end is swelled to a width of twelve to eighteen inches and slightly flattened, giving a most distinct appearance, which suggests the name—"Mammoth Whale." The skin is of a dark olive-green with slight stripes of a lighter tinge. The fruits frequently attain more than one hundred pounds in weight. Flesh firm and solid, of beautiful orange-yellow and excellent quality.

Per pkt. 5c; oz. 10c; ¼ lb. 35c; lb. \$1.25, postpaid

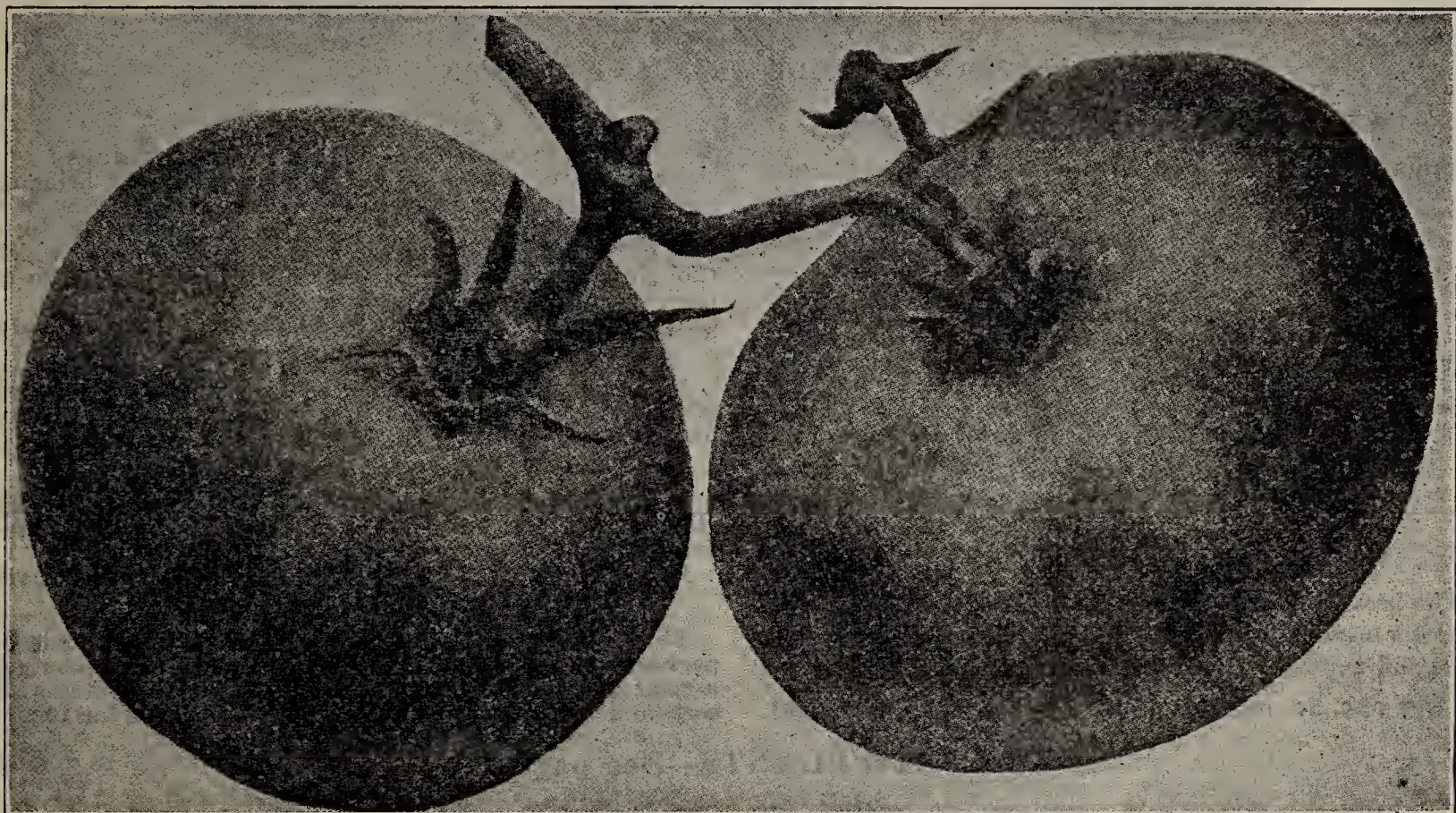


## TOMATOES

**Culture**—Tomatoes do best on light, warm, not over rich soil, and success depends upon securing a rapid, vigorous and unchecked growth during the early part of the season. Sow in hotbeds from six to eight weeks before they can be set out of doors, which is when danger from frost is past; when the plants have four leaves transplant into shallow boxes or cold frames, setting them four or five inches apart; give plenty of air, and endeavor to secure a vigorous but steady and healthy growth, so that at the time of setting in the open ground they will be strong and stocky. Even a slight check while the plants are small will materially diminish their productiveness. Set out of doors as soon as danger from frost is over, but before doing so harden off the plants by gradually exposing them to the night air, and by the withdrawal of water until the wood becomes hard and the leaves thick and of a dark-green color. Transplant carefully and cultivate well as long as the vines will permit.

To insure best results in respect to early ripening, as well as the amount and perfection of fruit, it is advisable to train up and trim the vines, especially if the patch is rather small. When the plants have been properly started and are six to ten inches high, they will begin to throw out branches. Select one of the largest and most vigorous of these and pinch off all others except this one and the main stem. Care must be exercised not to pinch off the fruiting branches, which, as they appear, can be distinguished by the buds that are formed very early. In a short time these two remaining branches will become equally vigorous, and as ordinary varieties will grow four to six feet high during the season, they should be securely tied at intervals of about ten inches to a long stake, preferably two inches square which has been securely set in near the root of the vine. Fruit will set to almost any height desired if all side branches are kept trimmed off.

By such a method of training and trimming the fruits are kept clear from the ground, and with free access to sunlight they ripen much earlier; the vitality, otherwise exhausted in superfluous branches and leaves, is utilized in forming fruits of largest size, greatest perfection of shape and best quality.



CHALK'S EARLY JEWEL

### CHALK'S EARLY JEWEL

The largest, smoothest and finest-flavored extra early bright red tomato! Within a week to ten days as early as Spark's Earliana, it is even a heavier cropper, with tomatoes of larger size and sweeter flavor—produced continuously throughout the season. Of compact growth, the plants are fairly loaded with fruit. The tomatoes are uniformly of good size—seventy-five will fill five-eighths bushel basket. The large, handsome fruits are very solid and deep through, being almost round, or ball-shaped. Color brightest scarlet, ripening right up to the stem without any cracks or green core. The thick flesh is very solid, with comparatively few seeds, and of fine, sweet flavor; skin thin, but sufficiently strong to make it a good shipper. Per pkt. 5c; ½ oz. 25c; oz. 40c; ¼ lb. \$1.00; per lb. \$3.50, postpaid.

### BONNY BEST

An early, scarlet-fruited variety which has proven a success all over the country. It is from ten days to two weeks earlier than Chalk's Early Jewel, which it otherwise resembles. It is smooth, very even in size, very solid, and also very prolific. It is one of the best house-garden, canning and shipping tomatoes in existence.

Per pkt. 5c; oz. 25c; ¼ lb. \$1.00; lb. \$3.50, postpaid

### BEEFSTEAK or PONDEROSA

In addition to its ponderous size it is also very solid, there being but few seeds. In color it is a beautiful crimson throughout. Although so large it is quite early.

Per pkt. 5c; oz. 50c; ¼ lb. \$1.50; lb. \$5.00, postpaid

### BEAUTY

A rather early, tall variety; very prolific, with good-sized smooth fruit of a purplish-carmine color.

Per pkt. 5c; oz. 25c; ¼ lb. 75c; lb. \$2.25, postpaid

### "BURBANK" TOMATO

Earliest, smoothest, most productive and best early tomato, bright crimson, thick, smooth and firm with few seeds. Unusually heavy and of the finest quality. Keeps well; a good shipper; a prolific, continuous bearer, has the unusual feature of being easily peeled, the skin slipping readily from the flesh. Resistant to wilt and other diseases.

Pkt. 10c; oz. 35c; ¼ lb. \$1.00; lb. \$3.75, postpaid

### DWARF CHAMPION

This is sometimes sold as the "Tree Tomato." It is a second early or main crop, purplish pink variety, especially desirable where garden space is limited. The vines are about two feet high, vigorous, upright and compact. The fruits are medium sized, exceptionally smooth and of very good quality. Our stock is a very superior strain with more even, smoother fruit than the original. Per pkt. 5c; oz. 50c; 2 oz. 85c; ¼ lb. \$1.40. lb. \$5.00, postpaid

### SPARK'S EARLIANA

The plants are compact in growth with short, close-jointed branches, setting fruits very freely in the center. An entire plant may be covered with an ordinary bushel corn basket—yet so freely are the fruits set that each plant will produce a five-eighths bushel basket of tomatoes during the season of about four weeks, which covers the bearing period of the early plants.

The tomatoes are quite uniform in size and of smooth regular form, averaging three inches in diameter and from two to two and a half inches in depth; they are fleshy, solid and excellent for shipping purposes. Choice seed of this strain is extra selected and far superior to the stock usually sold. Per pkt. 5c; ½ oz. 25c; oz. 40c; 2 oz. 70c; ¼ lb. \$1.00; lb. \$3.50, postpaid.



# Tomatoes



MARGLOBE WILT-RESISTANT TOMATO

## MARGLOBE WILT-RESISTANT

Probably no tomato has created such intense interest since the introduction of our Wood's Famous Brimmer. It was bred primarily to produce a red wilt-resistant tomato of the Globe type and exceeded all expectations. It is not only wilt-resistant, but is resistant to "nail-head rust" as well; is a splendid bearer, the fruits averaging one-half pound, firm, thick and mildly acid. Ripens perfectly, does not crack easily and is of very superior quality. The fruits are of good size, smooth, solid, deep from stem to blossom, and are borne in clusters of 5 to 7 fruits. Marglobe has proved its ability to withstand long periods of wet and unfavorable weather conditions. Per pkt. 10c; oz. 40c; 2 ozs. 75c;  $\frac{1}{4}$  lb. \$1.50; lb. \$5.00.

## STONE

The best main crop variety for all purposes and largely used for canning. Vine tall and prolific. Fruit smooth, large and uniform. Color bright scarlet.

Per pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 75c; lb. \$2.25, postpaid

## GOLDEN QUEEN

### The Finest of the Large Yellow Tomatoes

The superior flavor of the yellow varieties is bringing them into favor as table fruit, and those who think of a yellow Tomato as the rough fruit of the old yellow sorts will be surprised at this smooth, beautiful fruit which though large, is as smooth and well-shaped as the best of the red varieties, and of a fine and distinct flavor.

Per pkt. 5c; oz. 50c,  $\frac{1}{4}$  lb. \$1.75, lb. \$5.00, postpaid

## IMPROVED TROPHY

Vigorous grower, producing heavy crops of deep red fruit; fine for all purposes. It is rather late. Per pkt. 5c; oz. 25c; 2 ozs. 40c;  $\frac{1}{4}$  lb. 75c; lb. \$2.50, postpaid.

## JOHN BAER

One of our earliest and most profitable varieties. Fruit globe shaped, bright scarlet in color, good size; solid, coreless and with few seeds. Vigorous and prolific.

Per pkt. 5c; oz. 35c;  $\frac{1}{4}$  lb. \$1.00; lb. \$3.50, postpaid

## MIXED TOMATO SEED

This is unusually popular. We have sold thousands of packages of this mixture and find that our customers get a great deal of pleasure in growing these as it contains all sorts and colors, large and small. Try a package for 10c.

TOMATO PLANTS—See page 29

## SMALL FRUITED TOMATOES

The fruit of these are largely used for making fancy pickles, preserves, etc. The plants are extremely productive.

### YELLOW PLUM

The fruits average two inches in length and one inch in diameter, of a bright lemon-yellow; are solid, fleshy, and of excellent flavor.

Per pkt. 5c; oz. 50c

### YELLOW PEAR

Similar to the Yellow Plum, but the fruits have a slim neck or distinct pear shape.

Per pkt. 10c; oz. 50c

Small Fruited Tomatoes Mixed, 10c per package.

### RED PEAR-SHAPED

This is a leading favorite for preserves and also to make "tomato figs." The fruit is bright red, of true pear shape, and of rich distinct flavor. The larger plum-shaped red tomato, often sold under the same name, is not nearly equal to the true variety.

Per pkt. 10c; oz. 50c

### STRAWBERRY, or HUSK TOMATO

Plants of low-spreading growth and immensely productive. The small yellow fruits are each enclosed in a husk. Of very sweet flavor, highly esteemed for preserving or making pies. They are also excellent to eat raw as fruit.

Per pkt. 10c; oz. 50c

## TOBACCO SEEDS

**Culture**—A very clean piece of land is best for the tobacco plant beds, hence it is customary to burn a piece of land in the woods for plant beds. This destroys grass, weeds and insects, adds fertility through the action of the wood ashes, and leaves the ground in good order. The seeds are sown about February and protected by plant-bed cloth to keep off tobacco flies. When large enough and weather is settled (about June), set the plants out in highly manured or fertilized soil in  $3\frac{1}{2}$ -foot rows, 3 feet between the plants. Constant care must be given, cultivating, suckering, worming, etc.

### CONNECTICUT SEED LEAF

An old, well-known variety.

Per pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 75c; lb. \$2.25, postpaid

### HAVANA

Grown from seed imported from Vuelta de Abajo.

Per pkt. 10c; oz. 40c, postpaid

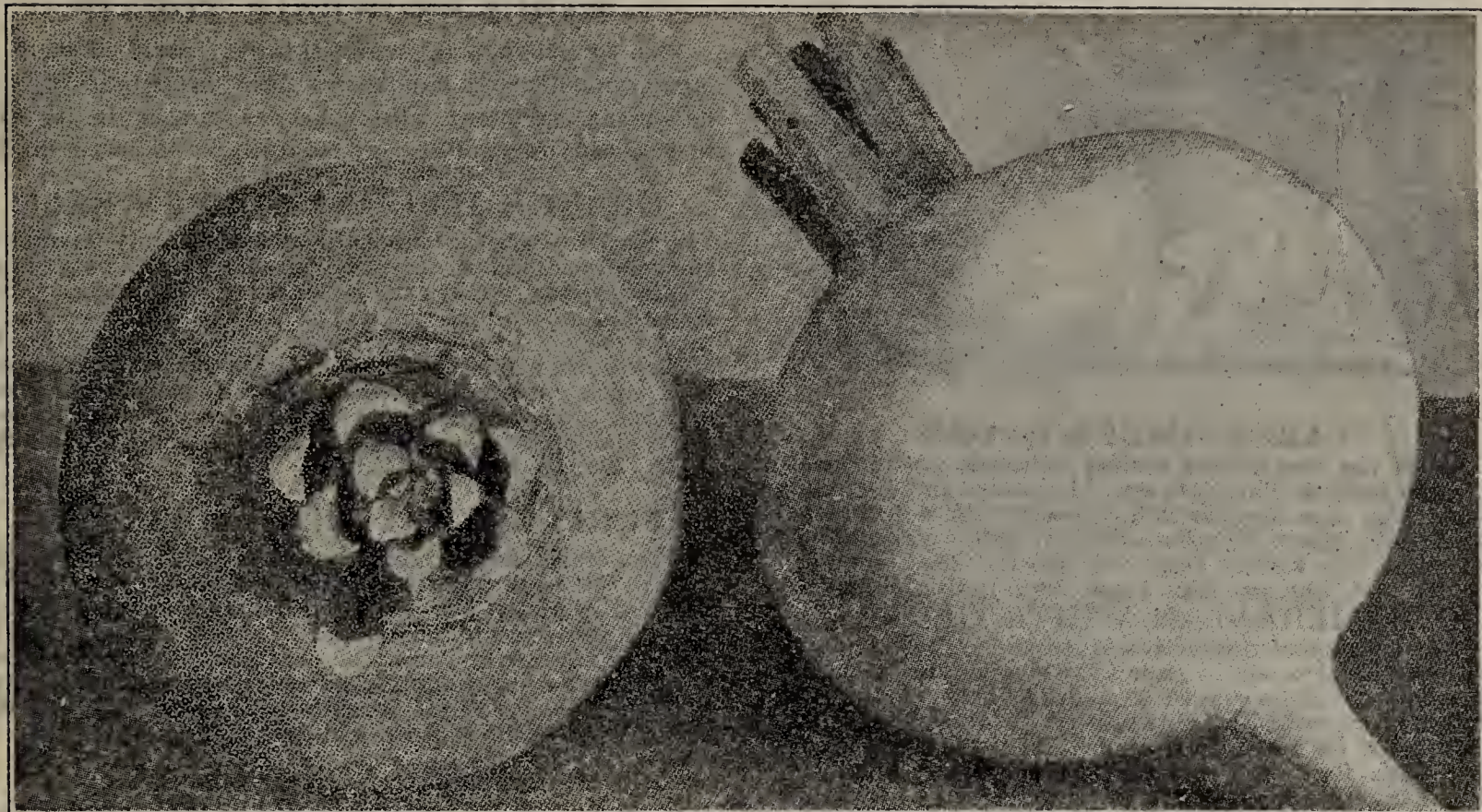
### IMPROVED WHITE BURLEY

This strain is much superior to the regular White Burley. Per pkt. 10c; oz. 40c;  $\frac{1}{4}$  lb. \$1.10; lb. \$4.00, postpaid.

**FOR TOBACCO WORMS** apply either arsenate of lead or paris green with one of the dust guns. They apply the insecticides perfectly and the cost is small when it is remembered that they will last for years.



# TURNIP



**PURPLE TOP WHITE GLOBE**—The best for the Northwest

Sow in drills about two feet apart and half an inch deep, or sow broadcast, but in either case be sure to have the ground rich and freshly stirred. Thin early and keep free from weeds, so that the young plants will not be checked in growth. Any over-crowding will result in rough and poorly-flavored roots. It is important to get the spring and summer crop started very early, so that the turnips may have time to grow to sufficient size before hot weather causes them to become tough and bitter.

In Middle and Western States sow for fall and main crop middle of July to last of August, and in the manner given for spring sowing. In the field turnips are often sown broadcast, though in most cases better results are obtained by drill culture.

## EXTRA EARLY WHITE MILAN

This variety is remarkably early. The tops are very small, strap-leaved, upright and compact, so that rows can be planted close together. The roots are clear white, very smooth, flat and are of best quality when only about two inches in diameter. The flesh is clear white, mild, sweet and tender. Very desirable for early use, especially for forcing. Per pkt. 5c; oz. 15c; 2 ozs. 25c; ¼ lb. 35c; lb. \$1.00, postpaid.

## EXTRA EARLY PURPLE TOP MILAN

Similar to Extra Early White Milan, except that the roots are a little flatter and an attractive purple-red on the upper portion. Well adapted for forcing. All in all, the Milan turnips leave nothing more to be desired in the way of an extra early garden turnip. Per pkt. 5c; oz. 15c; 2 ozs. 25c; ¼ lb. 40c; lb. \$1.50, postpaid.

## EARLY PURPLE TOP, STRAP LEAVED

A very early strap-leaved variety, very extensively used for the table. The leaves are few, entire, upright in growth. The roots are flat, of medium size, purple or dark red above ground, white below. The flesh is white, fine-grained and tender. Roots when in best condition for table use are about two and one-half inches in diameter but can be grown much larger for stock feeding. This sort is also known as Early Red Top. Strap Leaver. Per pkt. 5c; oz. 10c; 2 ozs. 15c; ¼ lb. 20c; lb. 50c, postpaid.



**EARLY PURPLE TOP, STRAP LEAVED**

## EARLY WHITE FLAT DUTCH, STRAP LEAVED

A very early, white turnip, extensively used for the table, especially in the southern states. The leaves are entire, toothed on the margin but not divided or lobed, and are upright in growth. The roots are of medium size, flat, very white fleshed, fine grained and sweet. The roots when in best condition for table use are about two and one-half inches in diameter. This variety is also grown as a field crop. Per pkt. 5c; oz. 10c; 2 ozs. 15c; ¼ lb. 20c; lb. 50c, postpaid.

## WHITE EGG

An early, oval or egg-shaped variety with smooth, clear white roots of medium size which grow half out of the ground. The tops are small with leaves distinctly cut. The flesh is clear white, firm, fine grained and sweet. The roots of this quick growing garden sort when in best condition for use are usually about two inches in diameter and about three and one-half inches long. Per pkt. 5c; oz. 10c; 2 ozs. 15c; ¼ lb. 20c; lb. 50c, postpaid.

## PURPLE TOP WHITE GLOBE

This excellent table variety is globular in shape, of good size and very attractive appearance. The roots are large, purple or dark red above ground, white below. The flesh is white, fine grained and tender. The roots when in best condition for the table are about three inches in diameter, but can be grown much larger for stock feeding. This sort keeps well for so early a variety and is one of the best for market use. It is also known as Red Top White Globe. Per pkt. 5c; oz. 10c; 2 ozs. 15c; ¼ lb. 20c; lb. 50c, postpaid.

## LARGE WHITE NORFOLK

This sort is usually grown for feeding stock, and although a little coarse in texture it is of good quality for the table, but for the latter purpose is in best condition when the roots are about 4 inches in diameter. The roots are white and smooth, grow to the largest size, and are globe-shaped or slightly flattened. The variety is allowed to stand out during the winter in the south where the tops are used for greens. Per pkt. 5c; oz. 10c; 2 ozs. 15c; ¼ lb. 20c; lb. 50c, postpaid.

## MIXED TURNIP SEED

All sorts and varieties, long, round, oblong, etc.

Pkg. 5c; oz. 10c; ¼ lb. 20c; 1 lb. 40c, postpaid



## TURNIP—Continued



### LARGE AMBER GLOBE

One of the best yellow fleshed varieties, grown usually for stock feeding. The roots are of large size and of globular shape. The skin is clear yellow except the top which is tinged with green. The flesh is light yellow, fine grained and sweet. The variety keeps well and is a good cropper.

Per pkt. 10c; oz. 15c; 2 ozs. 20c;  $\frac{1}{4}$  lb. 20c; lb. 50c

### POMERANEAN WHITE GLOBE

One of the most productive kinds and in good, rich soil the roots will frequently grow to twelve pounds in weight. The roots are globe-shaped or slightly flattened; skin very white and smooth. This sort is used for stock feeding and is also good for table use if pulled when the roots are not more than four to five inches in diameter. Where the winters are mild the tops are used for greens. Per pkt. 5c; oz. 10c; 2 ozs. 15c;  $\frac{1}{4}$  lb. 20c; lb. 50c, postpaid.

### COW HORN or LONG WHITE

This variety is clear white, except a little shade of green at the top of the root, which is long and carrot-like in form, cylindrical but usually ending in a point, and slightly crooked. The roots are often twelve to fifteen inches long by about two and one-half inches in diameter and grow about three inches out of the ground. The flesh is fine grained and well flavored, and for table use is in best condition when the roots are about two inches in diameter. Desirable for stock feeding and has obtained considerable favor as a market sort. The variety is of very rapid growth and well adapted for fall and early winter use. Per pkt. 5c; oz. 10c; 2 ozs. 15c;  $\frac{1}{4}$  lb. 20c; lb. 50c, postpaid.

## RUTABAGAS or SWEDES

**Culture of Ruta Bagas**—Sow the seed from about the middle of June to the middle of July. Ruta Bagas require ground enriched with well-rotted manure, and should be sown in drills about two and one-half feet apart and the young plants thinned eight to twelve inches apart in the row. Keep free from weeds by frequent cultivation, and when the roots are full grown and before hard freezing weather, pull them, cut off the tops and store in a root cellar or pit. Ruta Bagas are sometimes sown broadcast and left to take their chances with the weeds and bugs. So treated, the crop is seldom a success, though occasionally on new clearings, free from weed seed, fair results are obtained.

### MONARCH or TANKARD

This is a yellow-fleshed sort, having very large tankard-shaped roots, with relatively small necks, and tops. Color purplish-crimson above ground, yellow below; flesh very solid, fine-grained and of the best flavor.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 75c

**MIXED RUTABAGA SEED, VERY POPULAR**—Pkg. 5c; oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 50c, postpaid

### EARLY SNOWBALL TURNIP

This globe-shaped, white-skinned early Turnip is large, smooth and handsome; flesh white and of mild flavor, an excellent winter keeper, maturing its crop in about 65 days. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 50c

### ORANGE JELLY or GOLDEN BALL

A distinct variety, one of the most delicately flavored of the yellow-fleshed turnips. The tops are small. The roots are medium sized, round, very smooth and with deeper yellow skin than most of this class. The flesh is firm, crisp and of most excellent quality. The roots are in best condition for table use when about three inches in diameter. This variety is of quick growth, adapted to spring as well as fall planting, and keeps exceptionally well. Known also as Robertson's Golden Ball. Per pkt. 5c; oz. 15c; 2 ozs. 20c;  $\frac{1}{4}$  lb. 20c; lb. 50c, postpaid.

### PURPLE TOP YELLOW ABERDEEN

A medium sized, round, late maturing, long keeping yellow-fleshed turnip. Roots yellow with purple top. Flesh pale yellow and of very firm texture, approaching the Ruta Baga in this regard, but tender and sweet. Since it requires a longer time to mature, the seed should be sown about two weeks earlier than most sorts. It is hardy, productive and valuable for stock feeding. Per pkt. 5c; oz. 10c; 2 ozs. 15c;  $\frac{1}{4}$  lb. 20c; lb. 65c, postpaid.

### YELLOW BORTFELDER

Bortfeld (Long Yellow)—Sometimes called long yellow Cow Horn. Pure yellow except a little shade of green at the top. Grows part out of the ground and is of very rapid growth; a heavy cropper and of delicious flavor. It has proven itself to be far superior to any turnip ever introduced for stock feeding as it is a heavy yielder and relished by all stock.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 50c, postpaid

### MIXED TURNIP SEED

All sorts and varieties, long, round, oblong, etc.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; 1 lb. 50c, postpaid

### IMPROVED PURPLE-TOP YELLOW

A fine strain. Per oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00.

### BUTZER'S BEST

This is a strain of Purple-Top Yellow Ruta Baga of American origin, selected to a smaller top and a much shorter neck than is usually found, while the roots grow to a large size, and are of the finest quality and excellent for table use and stock feeding. We consider this one of the most desirable kinds on our list.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 75c

### LARGE WHITE

Large size, white skin, white flesh.

Per oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 75c

Each variety, 5c per pkt., and prices postpaid.

## GARDEN COLLECTION No. 1

No. 1 Collection Contains One Package Each of the  
Following Delivered to You by Mail Postpaid for **50c**

- 1 Pkt. Beet—Detroit Dark Red
- 1 " Beans—Burpee's Stringless
- 1 " Carrot—Chantney
- 1 " Cucumber—Long Green
- 1 " Lettuce—New York
- 1 " Peas—Blue Bantam
- 1 " Nasturtium—Tall Mixed
- 1 " Radish—Crimson Giant
- 1 " Radish—Icicle

- 1 Pkt. Swiss Chard—Lucullus
- 1 " Turnip—Purple Top White Globe
- 1 " Spinach—King of Denmark
- 1 " Parsley—Emerald
- 1 " Sweet Peas—Spencer Mixed
- 1 " Aster—Rose City Mixed

**15 Full Size Packages  
all for 50c, Postpaid**



## SWEET, MEDICINAL AND POT HERBS, FROM SEED

To preserve varieties of which the leaves and stems are used, the stems should be cut from the plants just before the blossom appears (leaving a few joints at the base to sprout into fresh growth), tied in small bunches and hung up to dry. Where wanted for home use it is preferable to leave them hanging in a cool loft or garret until they are needed for use. The varieties marked with an asterisk (\*) are hardy perennials, living over from year to year, and need replanting when the old plants become exhausted.

**ANISE**—(*Pimpinella anisum*)—Used for cordials, garnishing, and flavoring; the seeds have an aromatic taste.  
Per pkt. 5c; oz. 10c; ¼ lb. 35c

**BALM**—(*Melissa officinalis*)—The leaves have a fragrant odor, and are used for making a pleasant beverage known as balm wine, also balm tea, for fevers.  
Per pkt. 5c; oz. 25c

**BASIL**—Sweet—(*Ocimum basilicum*)—The leaves are used for flavoring soups, stews and highly seasoned dishes.  
Per pkt. 5c; oz. 20c

**BENE**—(*Sesamum orientale*)—Too tender for the North, but much used in the South. The seeds furnish an oil used for softening and whitening the skin. The leaves immersed in water make a drink beneficial for diarrhoea.  
Per pkt. 5c; oz. 15c

**BORAGE**—(*Borago officinalis*)—Leaves are used for flavoring, and flowers furnish bee pasture.  
Per pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25, postpaid

\***CARAWAY**—(*Carum carvi*)—Grown for the seeds which are used for flavoring bread, pastry, etc.  
Per pkt. 5c; oz. 10c; ¼ lb. 25c

\***CATNIP, or CATMINT**—(*Nepeta cataria*)—The leaves are used for seasoning. It makes also an excellent bee pasture.  
Per pkt. 10c; oz. 30c; ¼ lb. 85c

**CORIANDER**—(*Coriandrum sativum*)—The seeds are used in manufacture of liquors and confectionery.  
Per pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid

**DILL**—(*Anethum graveolens*)—The seeds have an aromatic odor and warm pungent taste. They are used as a condiment, and also for pickling with cucumbers.  
Per pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid

\***FENNEL**—Sweet—(*Anethum foeniculum*)—The leaves boiled are used in sauces.  
Per pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid

\***HOREHOUND**—(*Marrubium vulgare*)—The leaves are used for seasoning and also in the manufacture of the popular cough remedy.  
Per pkt. 5c; oz. 20c; ¼ lb. 60c

## BIRD SEED

Select—Recleaned

Special price in large quantity.

|   | Price  |
|---|--------|
| Canary Seed, per lb., postpaid                    | \$0.15 |
| Rape Seed, per lb., postpaid                      | .15    |
| Hemp Seed, per lb., postpaid                      | .15    |
| Flax Seed, per lb., postpaid                      | .15    |
| Millet Seed, per lb., postpaid                    | .15    |
| Sunflower Seed, per lb., postpaid                 | .20    |
| Maw Seed, per lb., postpaid                       | .50    |
| Lettuce Seed, per ¼ lb., postpaid                 | .10    |
| Cuttle Bone, each, postpaid                       | .05    |
| Mixed Bird Seed, lb., 15c; 5 lbs., 60c, postpaid. |        |

The postpaid prices apply only to the 1st, 2nd and 3rd zones.

## SPICE SEED

|         | —Postpaid— | oz. | ¼-lb. | lb. |
|---------|------------|-----|-------|-----|
| Anise   | 10c        | 20c | 40c   |     |
| Caraway | 10c        | 20c | 50c   |     |
| Celery  | 15c        | 40c | 60c   |     |
| Dill    | 10c        | 20c | 40c   |     |
| Mustard | 5c         | 15c | 25c   |     |
| Poppy   | 10c        | 20c | 50c   |     |

**LAVENDER**—(*Lavendula spica*)—A hardy perennial growing about two feet high. It is used for the distillation of lavender water or dried and used to perfume linen. It should be picked before it becomes dry and hard, and dried quickly. The seed is of rather slow and uncertain germination.

Per pkt. 10c; oz. 30c; 2 ozs. 55c; ¼ lb. 90c; lb. \$3.00

**LAVENDER, True**—(*Lavendula vera*)—Perennial. Mostly grown for the sweet-scented flowers which, when dried, are placed in the linen closet to impart their delicate perfume to the linen. Commercially grown for perfume factories.  
Per pkt. 25c

**MARJORAM, Sweet**—(*Origanum marjorana*)—An aromatic herb for seasoning. The young tender tops and leaves are used green in summer to flavor broths, dressings, etc., and are also dried for winter use. Usually grown as an annual as it is not hardy enough to endure the winter of the northern states. Plant erect but branching with small oval grayish green leaves and small purplish or whitish flowers.

Per pkt. 10c; oz. 25c; 2 ozs. 40c; ¼ lb. 75c; lb. \$2.50

\***ROSEMARY**—(*Rosmarinus officinalis*)—The aromatic leaves are used for seasoning.

Per pkt. 5c; oz. 45c; ¼ lb. \$1.25

\***RUE**—(*Ruta graveolens*)—For medicinal purposes; good for fowls.  
Per pkt. 5c; oz. 20c

**SAFFRON**—(*Carthamus tinctorius*)—A hardy annual. Cultivated for its flowers which are used principally for coloring, sometimes for flavoring and to make the cosmetic powder called rouge.  
Per pkt. 10c; oz. 25c; 2 ozs. 40c; ¼ lb. 75c; lb. \$2.50

\***SAGE**—(*Salvia officinalis*)—The most extensively used of all herbs for seasoning and dressing, indispensable.  
Per pkt. 5c; oz. 20c; ¼ lb. 60c; lb. \$2.00

**SUMMER SAVORY**—(*Satureia hortensis*)—The leaves and flowers are used extensively for flavoring, particularly in soups and dressings.

Per pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25

\***WINTER SAVORY**—(*Satureia montana*)—The leaves are used for flavoring.

Per pkt. 5c; oz. 20c; ¼ lb. 60c; lb. \$2.00

\***TANSY**—(*Tanacetum vulgare*)—Pkt. 6c; oz. 30c.

**TAGETES LUCIDA**—Considered an excellent substitute for the True Tarragon, which does not seed.  
Per pkt. 10c; oz. 45c

**TARRAGON**—(Roots only)—*Artemisia Dracunculus*—Does not produce seed. 35c each, \$3.50 per doz.

\***THYME**—(*Thymus vulgaris*)—The leaves are used for seasoning; a tea is also made for nervous headache.  
Per pkt. 10c; oz. 25c; ¼ lb. 75c

\***WORMWOOD**—(*Artemisia asintuim*)—Used medicinally, and is beneficial for poultry; should be planted in poultry yards. Pkt. 5c; oz. 20c; ¼ lb. 60c

## STIM-O-PLANT

A highly concentrated odorless fertilizer for the vegetable and flower garden, shrubs and house plants. The analysis is guaranteed 11 per cent nitrogen, 12 per cent phosphoric acid, 15 per cent potash, an ample amount of each plant food to insure a quick and strong growth of all plants.

30-tablet pkg. 25c; 100-tablet pkg. 75c; 1000-tablet pkg. \$3.50, postpaid.





# VEGETABLE PLANTS

We have grown for us large quantities of choice vegetable plants, and can supply all of the varieties listed below, in their proper season, in most any quantity. We can supply all vegetable plants in two grades—plants direct from the seed beds and those that have been transplanted into shallow boxes. Transplanted plants are much stronger and better rooted, and are well worth the price, especially in the early part of the season. NO PLANTS SENT C. O. D.

WE GROW ONLY THE FOLLOWING PLANTS. NO PLANTS SENT C. O. D.

## CABBAGE

EARLY JERSEY WAKEFIELD, COPENHAGEN  
MARKET, DANISH BALLHEAD

Transplanted and "pulled" plants. Early and late at seasonable times.

| Prices                 | Postpaid |        | Not Prepaid |        |
|------------------------|----------|--------|-------------|--------|
|                        | Doz.     | 100    | 100         | 1000   |
| Transplanted .....     | \$0.25   | \$1.25 | \$1.00      | \$8.00 |
| Not transplanted ..... | .15      | 1.00   | .75         | 6.00   |

## CAULIFLOWER

EARLY SNOWBALL, DRY WEATHER,  
KING WHITE

Cauliflower seed is scarce and high in some varieties and plant prices subject to change.

|  | Postpaid           | Not Prepaid |         |
|--|--------------------|-------------|---------|
| Prices                                 | Dozen              | 100         | 1000    |
| Early Varieties, transplanted .....    | \$0.30             | \$1.75      | \$12.00 |
| Not transplanted .....                 |                    | 1.25        | 10.00   |
| Late kinds, transplanted.....          | } Write for prices |             |         |
| Late kinds, not transplanted }         |                    |             |         |
| Add 15c per hundred if ordered by mail |                    |             |         |

## CELERY

GOLDEN SELF BLANCHING, WHITE PLUME

Fine, healthy plants in early and Winter varieties furnished in season.

To succeed with celery keep the plants growing constantly while young—if they "stand still" they are liable to run up to seed later.

| Prices                 | Postpaid         |        | Not Prepaid |        |
|------------------------|------------------|--------|-------------|--------|
|                        | Doz.             | 100    | 100         | 1000   |
| Transplanted .....     | \$0.30           | \$1.25 | \$1.00      | \$8.50 |
| Not transplanted ..... | Write for prices |        |             |        |

## BRUSSELS SPROUTS

These are very hardy and should be grown the same as Kale or Broccoli.

| Prices                 | Postpaid |        | Not Prepaid |         |
|------------------------|----------|--------|-------------|---------|
|                        | Doz.     | 100    | 100         | 1000    |
| Brussels Sprouts ..... | \$0.25   | \$1.50 | \$1.25      | \$10.00 |

## TOMATOES

EARLY JEWELL, EARLIANA, JOHN BAER,  
YELLOW PEAR

Tomato plants should not be set out before the weather is settled and ground warm, unless they are protected from frost.

If you do not know what variety is best, tell us; we will give you the right one.

| Prices             | Postpaid |        | Not Prepaid |         |
|--------------------|----------|--------|-------------|---------|
|                    | Doz.     | 100    | 100         | 1000    |
| Transplanted ..... | \$0.30   | \$1.50 | \$1.25      | \$10.00 |

Write for prices on "pulled" plants and large lots.

## BROCCOLI

Our famous "St. Valentine" Broccoli should be in every garden. Broccoli is a Winter Cauliflower very hardy and of the finest quality—"St. Valentine" is the best variety. Plants can be set after June and are ready to use in March.

| Prices         | Postpaid |        | Not Postpaid |         |
|----------------|----------|--------|--------------|---------|
|                | Doz.     | 100    | 100          | 1000    |
| Broccoli ..... | \$0.30   | \$1.50 | \$1.25       | \$12.00 |

Write for prices on large lots.

## KALE

When you order Kale be sure to state whether you want the Garden Kale or the "Cow" Kale.

| Prices                      | Postpaid |        | Not Prepaid |         |
|-----------------------------|----------|--------|-------------|---------|
|                             | Doz.     | 100    | 100         | 1000    |
| Thousand Head or            |          |        |             |         |
| "Cow" Kale .....            | \$0.20   | \$1.25 | \$1.00      | \$ 6.00 |
| Garden or Curley Kale ..... | .25      | 1.50   | 1.25        | 10.00   |

Special prices on large lots in season.

## MISCELLANEOUS PLANTS

All Transplanted

| Prices                        | Postpaid |        | Not Prepaid |      |
|-------------------------------|----------|--------|-------------|------|
|                               | Dozen    | 100    | 100         | 1000 |
| Celeriac .....                | \$0.25   | \$1.00 | \$ 8.50     |      |
| Egg Plant, Black Beauty ..... | .30      | 1.25   | 10.00       |      |
| Pepper, Chinese Giant .....   | .30      | 1.25   | 10.00       |      |
| Tobacco .....                 | .30      | 1.25   | 10.00       |      |

Add 25c per 100 for above plants by mail.

Chives (Schnittlauch), per bunch .....15c

NOTICE—Although we exercise the greatest care in the packing and dispatch of Vegetable Plants, we cannot guarantee safe arrival. Our responsibility ends on delivery to P. O. or Express Office. No plants sent C. O. D. and no Pot Plants sent by Mail.

## ASPARAGUS ROOTS

We can furnish the varieties listed below in selected one-year-old roots. We are not handling two-year or older stock, the one-year-old roots are used by all experienced growers and are the best size for transplanting.

Pedigreed Washington—New rust-resisting variety. 25s per doz.; \$1.00 per 100, postpaid

Palmetto—One of the most popular varieties grown. One-year-old plants—Postpaid, 30c per doz.; 50c per 50; \$1.00 per 100.

## RHUBARB ROOTS

Young roots of Myatt's Victoria, which, if planted in good soil early in the spring, will make a strong growth and yield stalks for market the following spring. The plants increase in size every year and will with proper care last for many years. Thick luscious stalks shaded bright crimson.

Single Eye—Postpaid, each 15c; doz. \$1.50; 100 \$7.50.

Double Eye—Postpaid, each 25c; doz. \$2.50; 100 \$10.

Transplants—Grown one year from single-eye large, vigorous, healthy roots. Each 35c; doz. \$3.00, postpaid.

# ALL YEAR TREATMENT AGAINST INSECTS AND DISEASE ENEMIES OF GARDEN AND GROVE VEGETABLES

Asparagus Rust—Spray with Dry Lime Sulphur or Fungi Bordo. Use according to directions on package.

Cut Worms—Mix 1 lb. Paris Green in 10 lbs. of bran. Add one quart black strap molasses and two lemons chopped fine. Mix the whole to a crumbly mass and scatter in the field.

Grass Hoppers—Same as for cut worms.

Mildew on Peas—Spray with Fungi Bordo. Follow directions on the package.

Potato Diseases—For scab and other fungi on potatoes, dip the tubers in a solution of one pint formaldehyde and 25 gallons of water allowing them to soak two hours.

Grind lemons with meat grinder; mix all ingredients thoroughly. Spread thinly to avoid danger to livestock. Best spread in the late afternoon.

Tomato Worms—Pick off by hand or before fruit is half grown. Spray with Arsenate of Lead solution three to four level tablespoonfuls to one gallon of water.

Tomato Blight—Spray with Fungi Bordo, using according to directions on the package.

Slugs—Dust with Hammond's Slug Shot or Snarol.

Melon Blight—Spray the hill freely with Fungi Bordo so that the liquid will follow the stem several inches below the surface. This should be done as a precaution as well as for a remedy.

Climbing Insects—To prevent ants and other insects from entering trees, apply Tree Tanglefoot.





# BUTZER'S

# FLOWERS

Flower Seeds For Different Purposes  
For description and prices see general list  
We do not have all but most of them

## PERENNIALS

Achillea  
Aconitum  
Adonis  
Agrostemma  
Alstroemeria  
Alyssum  
Anchusa  
Anemone  
Aquilegia  
Arabis  
Asperula  
Aster  
Aubrietia  
Auricula  
Bellis  
Bocconia  
Campanula  
Candytuft  
Centaurea  
Cerastium  
Chelone  
Chrysanthemum  
Coreopsis  
Delphinium  
Dianthus  
Digitalis  
Edelweiss  
Eremurus  
Erigeron  
Erysimum  
Erinus  
Gaillardia  
Geum  
Hypsophila  
Helenium  
Helianthus  
Heuchera  
Hibiscus  
Hollyhocks  
Incarvillea  
Lathyrus  
Linaria  
Linum  
Lobelia  
Lupinus  
Lychnis  
Pansies  
Pentstemon  
Phlox  
Physalis  
Polyanthus  
Poppies  
Primula  
Pyrethrum  
Romneya  
Rudbeckia  
Scabiosa  
Silene  
Statice  
Stokesia  
Sweet William  
Veronica  
Viola  
Wallflower

## FOR EDGING BORDERS

Ageratum  
Alyssum  
Armeria  
Bellis  
Candytuft  
Centaurea  
Lobelia  
Marigold  
Mysotis  
Nasturtium  
Nigella  
Pennisetum  
Petunia  
Phlox, Dwarf  
Portulaca  
Pyrethrum  
Sweet William  
Sweet Pea, Cupids  
Tagetes  
Viola  
Zinnia haageana

## FOR HANGING BASKETS, WINDOW BOXES, etc.

**Upright**  
Pansy  
Viola  
Ageratum  
Heliotrope  
Primulas  
Candytuft

## FOR HANGING BASKETS, WINDOW BOXES, etc.

**Drooping**  
Alyssum  
Convolvulus  
Kenilworth Ivy  
Lobelia  
Nasturtium  
Petunia  
Thumbergia

## EVERLASTING FLOWERS

Acroclinium  
Edelweiss  
Globe Amaranth  
Helichrysum  
Honesty, Lunaria  
Rhodanthe  
Statice  
Xeranthemum

## CLIMBING VINES

### ANNUAL

Balloon Vine  
Balsam Apple  
Balsam Pear  
Canary Bird Vine  
Cardinal Climber  
Convolvulus  
Cypress Vine  
Hyacinth Bean  
Ipomoea  
Japanese Morning Glory  
Mina Lobata  
Nasturtium  
Scarlet Runner  
Sweet Peas  
Thumbergia  
Wild Cucumber

## ROCK GARDEN

Alyssum Saxatile  
Compactum  
Anemone Pulsatilla  
Aquilegia Alpina  
Aquilegia Coerulea  
Arabis Alpina  
Armeria Formosa  
Armeria Formosa Hybrid  
Armeria Lauchiana  
Armeria Maritima  
Arenaria Montana  
Asperula Odorata  
Aster Alpinus, Goliath  
Aster Alpinus, Nix  
Aubrietia Bougainvillei  
Auricula  
Calamintha Alpina  
Campanula Carpatica  
Campanula Carpatica Alba  
Campanula Alba  
Candytuft Semper-virens  
Cerastium Tomentosum  
Crucianella Stylosa  
Dianthus Caesius  
Dianthus Deltoides  
Dianthus Plumarius  
Edelweiss  
Erigeron Speciosus Hyb. Grandiflorus  
Erigeron Grandiflorus Elatior  
Erinus Alpinus  
Erodium Manescavi  
Erysimum Pulchellum  
Forget-Me-Not Alpestris  
Forget-Me-Not Alpestris Rosea  
Geum  
Geum Mrs. Bradshaw  
Geum Lady Strathe-den  
Globularia Trichosanthes  
Gypsophila Repens  
Helianthemum Mutabile  
Heuchera Sanguinea Hybrid  
Hieracium Villosum  
Inula Ensifolia  
Linaria Cymbalaria  
Lychnis Alpina  
Oenothera Missouriensis  
Poppy Alpine  
Poppy Nudicaule  
Poppy Mixed  
Poppy Sunbeams  
Poppy Double Mixed  
Primula Japonica Mixed  
Primula Veris (Polyanthus)  
Primula Yellow  
Pyrethrum Roseum (Painted Daisy)  
Pyrethrum Hybridum Grandiflorum  
Pyrethrum Album

Pyrethrum Carneum  
Pyrethrum Roseum  
Pyrethrum Atro-sanguineum  
Pyrethrum Single Mixed  
Saponaria Ocy-moides  
Saxifraga Decipiens Grandiflora  
Saxifraga Rhei superba  
Silene Shafta  
Solidago Virgo-aurea Alpestris  
Tunica Saxifraga  
Veronica Incana  
Veronica Prostata mixed

## ANNUAL For Cutting

Agrostemma  
Antirrhinum  
Arctotis  
Asters  
Calendula  
Calliopsis  
Candytuft  
Carnation  
Celosia plumosa  
Centaurea  
Chrysanthemum  
Clarkia  
Cosmos  
Dahlias  
Dianthus  
Didiscus  
Dimorphotheca  
Eschscholtzia  
Gaillardia  
Godetia  
Gypsophila  
Larkspur  
Lavatera  
Lupinus  
Marigolds  
Mignonette  
Nigella  
Phlox  
Poppies  
Salpiglossis  
Scabiosa  
Statice  
Stocks, Ten Week  
Sunflower  
Sweet Peas  
Sweet William  
Verbena  
Wallflower  
Zinnias

## FOR SHADED PLACES

Anemone  
Antirrhinum  
Aquilegia  
Auricula  
Bellis  
Canterbury Bells  
Coreopsis  
Delphinium  
Digitalis  
Hardy Primrose  
Linum  
Muscotis  
Oenothera  
Pansy  
Polyanthus  
Poppies (Hardy)  
Schizanthus  
Violet



# BUTZER'S FLOWER SEEDS

## STANDARD VARIETIES, NOVELTIES and SPECIALTIES

Make Flowers Your Friends and They Will Make Friends For You. Make Your Home Grounds More Beautiful.

Plant flowers for your table, flowers for your home, and flowers for your friends. You can never have too many flowers. An abundance of pretty bouquets can be had with so little work and so little expense that every home should have the cheering influence of flowers. The culture of many is so very simple that anyone can succeed. Flowers are divided into three classes: Annuals, which produce flowers, mature and die in one season. Biennials, which grow from seed one year and bloom and die the second year. Many of these will produce flowers the first year if sown early enough. Perennials, which live for several years, producing flowers annually after the first season. These are grown from seed and also by setting out cuttings, slips, or divisions of roots. Perennials are very satisfactory, as they live for many years and produce large quantities of very beautiful flowers.

### ABRONIA

**Umbellata Grandiflora** (Sand Verbena)—6 in. A charming trailing succulent plant, with Verbena-like heads of fragrant flowers, of bright rose with white center; it delights in a dry, poor soil and sunny situations on rock-work. Per pkt. 10c.

### ABRUS

**Precatorius** (Crab's Eye Vine or Weather Plant)—This beautiful plant has created a great sensation. If the leaves stand upward the sky will be cloudless; if they stand out straight, changeable weather is indicated; when the leaves hang straight downward, water may be expected to fall in torrents. A local storm is indicated by the curling together of the leaves. Bears clusters of bright yellow flowers, followed by pods with brilliant red seeds used for making beads, etc. Seeds should be soaked in luke-warm water before planting. Per pkt. 10c; oz. \$1.00

### ABUTILON

**Royal Prize** (Flowering Maple or Chinese Bell Flower)—3 to 4 ft.

### \*ACHILLEA (Milfoil. Yarrow)

Achilleas are of easy culture and grow in any good garden soil. They are useful for the border, wild garden or shrubbery; also for cutting.

**Kelwayi**—Dark blood-red. Pkt. 25c.

**The Pearl**—2 ft. June to August. Pure white, fine for cutting; blooms all summer. Per pkt. 15c.

### \*ACONITUM (Monkshood)

Do not plant near vegetable gardens. Roots are poisonous. Bold spikes of hood-shaped flowers, valuable for cutting; very effective in flower borders and shrubberies, thriving anywhere.

**Napellus**—2½ ft. August. Fine rich blue flowers. Per pkt. 10c

### ACROCLINIUM (Everlasting)

**Roseum**—2 ft. A pretty everlasting, bearing graceful, daisy-like flowers, pretty bright rose with yellow center which, when cut in the bud state can be dried and used for winter bouquets. Per pkt. 5c.

**Roseum Flore Alba**—Graceful, white, daisy-like flowers with yellow center. Per pkt. 5c.

**Roseum Flore Pleno**—Double pink. Per pkt. 10c.

**Roseum Flore Alba Pleno**—Double white. Per pkt. 10c

**Roseum Single Mixed**—Per pkt. 5c; ¼ oz. 25c.

**Roseum Double Mixed**—Per pkt. 10c; ¼ oz. 30c.

### \*ADLUMIA (Allegheny Vine)

**Cirrhusa**—15 ft. The feathery foliage is like the Maidenhair Fern. Delicate rose pink and white flowers cover the plant. Per pkt. 10c.

### \*ADONIS

**Vernalis**—18 in. May. Large star-shaped yellow flowers. Per pkt. 10c.

### AGAPANTHUS

**Umbellatus** (Blue Lily of the Nile)—1 ft. Bright blue flowers produced in clusters on long stems. Does well out of doors in all Southern States. Greenhouse plant in the North. Pkt. 15c.

### \*AGATHEA

**Coelestis** (Blue Daisy)—Flowers sky blue with yellow disk; easy growth. Per pkt. 10c.

### AGERATUM

One of the best of summer flowering plants grown from seed. The plants start readily, grow rapidly and soon come into bloom, and when they begin to bloom they flower uninterruptedly throughout the season. During the hot, dry summer months there are no brighter or more freely produced flowers.

**Album**—White. Pkt. 5c.

**Blue Perfection**—This is the darkest colored of all large flowering Ageratums. 9 inches. Pkt. 5c

**Dwarf Blue**—6 in. A charming variety of compact growth, covered with heads of feathery flowers of a deep lavender color. Pkt. 5c.

**Little Dorrit Blue**—The best dwarf blue ageratum. Pkt. 5c

**Finest Mixed**—All colors. Pkt. 5c.

### \*AGROSTEMMA (Coronaria)

**Rose Champion**—One of the most attractive of the hardy perennials. Blooms the first season from seed, producing pretty pink-like blossoms on long slender stems. Fine for both mass planting and for bouquets. Height about 18 inches. Perennial. Per pkt. 10c.

### AGROSTIS

**Nebulosa** (Cloud Grass)—1½ ft. An airy and graceful annual grass; looks like a line of mist when in bloom. Beautiful to mix with cut flowers. Pkt. 10c.

### \*ALSTROEMERIA

**Aurantiaca**—Belongs to the Amaryllis family, quite hardy, flowers orange color streaked with red. A well established plant will produce five to six flower stalks carrying ten to fifteen blooms. Pkt. 25c.

### ALYSSUM

A very pretty plant for beds, vases, baskets, edgings or rock work. Sweet scented and blooms profusely all summer.

**Sweet (Maritimum)**—This very hardy annual for borders, edging or massing in small beds, comes into bloom early in the spring, covering itself with clusters or trusses of small, pure white cruciform flowers. They have a peculiar, delicate fragrance and are useful in small bouquets. Usually not over eight inches high but spreading. Pkt. 5c; oz. 25c.

**Lilac Queen**—Beautiful soft lilac flowers, changing to white. Per pkt. 10c; oz. 75c.

**Little Gem**—Very dwarf—4 inches—and spreading. They quickly become one mass of white fragrant flowers, remaining in full bloom from spring to fall. Per pkt. 10c; ½ oz. 20c; oz. 30c

**Lutescens**—Yellowish flowers, 6 inches. Per pkt. 10c

**Procumbens**—(Carpet of Snow)—A new and very select strain, carefully selected. Plants very spreading and only about 3 inches tall. Blooms are massed, completely hiding all foliage. Pkt. 10c.

### ALYSSUM

### \*SAXATILE COMPACTUM

(Basket of Gold)—1 ft. May-June. Producing masses of golden flowers very early. May be planted effectively with Arabis. Per pkt. 10c; ¼ oz. 40c.

### AMARANTHUS

**Tricolor**—A hardy annual with leaves of red, yellow and green; well known as "Joseph's Coat." Especially brilliant if grown in rather poor soil.

Per pkt. 10c; oz. 30c.

**Caudatus**—(Love Lies Bleeding)—Blood-red, drooping. Per pkt. 10c.

All varieties mixed. Per pkt. 5c.

### AMMOBIUM

**Alatum Grandiflorum**—2½ ft. This pretty white Everlasting should be in every garden. Grows well in sandy soil. Pkt. 10c

### ANAGALLIS

**Grandiflora Mixed**—6 in. Lovely dwarf plants, exceedingly effective as edgings, also charming on rock-work and in pots. Pkt. 10c

**Grandiflora Coerulea**—Dark blue, center deep purple. 10 inches. Pkt. 10c

### \*ANCHUSA

**Italica, Dropmore Variety**—5 ft. June-July. Beautiful gentian blue, flowers one of the best perennials. Per pkt. 10c

**Capensis**—Annual blue. Per pkt. 5c.

Those Marked \* are Perennials



**\*ANEMONE (Wind Flower)**

Very pleasing hardy plants for the herbaceous border. Fine large flowers, few plants compare with them in beauty. Excellent for bouquets and table decorations.

Coronaria (Poppy Anemone)—Mixed. June. 10 in. Per pkt. 10c

St. Brigid's Strain—May-June. Double and single mixed. 12 in. A beautiful selection of the Coronaria varieties in a wonderful array of colors. Per pkt. 10c.

Pulsatilla—1 ft. April-May. Well adapted for rock-work or border flowers, varying from lilac to purple. Per pkt. 10c

Pulsatilla Rubra—6 to 9 in. April-May. Dark red with erect flowers. Per pkt. 10c.

**\*ANTHEMIS (Marguerite)**

These Hardy Marguerites are most satisfactory perennials, succeeding in the poorest soil. The flowers are yellow.

Kelwayi (Hardy Marguerite)—2 ft. Daisy-like yellow blossoms, produced all summer. Excellent for cutting. Per pkt. 10c.

**ANTIRRHINUM (Snapdragon)**

Without question one of the most desirable flowers for general garden culture. They come in a great variety of colors and are equally good for bouquets as for mass planting. They are biennials, but can be handled as annuals also. When sown in early May they bloom in July and then until frost. If covered slightly they will come through the winter nicely and bloom abundantly the second year. For very early flowers start in the house and transplant outdoors when weather is favorable.

Tall Maximum or Giants—32 inches

This is the newest creation in Giant Antirrhinums, and is a marked advance over the older Tall Large Flowered type in size and brilliancy of color. The flowers are closely placed on the stems.

Apple Blossom—Rosy pink, yellow lip.

Copper King—Velvety copper scarlet.

Old Gold—Deep golden yellow.

Purple King—Deep glowing purple.

Snowflake—Pure white, yellow tube.

The Rose—Rose pink.

Finest Mixed.

Per pkg. 15c, 2 for 25c

**ANTIRRHINUM  
HALF-DWARF SNAPDRAGONS**

15 to 20 inches

Are particularly good for bedding, as they require no staking. The flowers are most wonderful, in many new shades and tints.

Climax—Orange shading to yellow in lip.

Defiance—Orange red.

Empress—Rich velvety crimson.

Fascination—Pearly pink self.

Firebrand—Fiery orange-scarlet.

Golden Queen—Rich yellow.

Nelrose—Deep rose pink.

Philadelphia pink—Pure pink.

Silver Pink—Delicate rose-pink, seemingly covered with a silver sheen.

Each of above, Per pkt. 10c, any 3 for 25c.

Mixed—Per pkt. 5c.

**BUTZER'S SPECIAL MIXTURE  
ANTIRRHINUM (Snapdragon)**

Includes all these and many other charming varieties and a packet will furnish you with a never-ending color combination of long-stemmed cut flowers suitable for home, church or hospital decoration.

Per pkt. 10c; 1/8 oz. 25c; 1/4 oz. 40c; 1 oz. \$1.25

**BUTZER'S SPECIAL MIXTURE****\*AQUILEGIA (Columbine)**

This mixture contains a great variety of all long spurred types in a splendid blend of colors. We do not believe that a more varied mixture of these choice columbine can be had.

Pkt. 25c

**STIM-U-PLANT**

An All the Year Fertilizer

BUTZER'S "ROSE CITY" COLLECTION  
of 6 Packets of SWEET PEAS. All Spencers

**25c** buys these all in regular 10c pkgs.  
See Page 53.

**\*AQUILEGIA (Columbine)**

Charming hardy perennial plants growing from one to three feet high, bearing in countless numbers through May and June their exquisite blossoms of clear blue, white, rose, yellow, purple, striped, etc. For planting in permanent borders or naturalizing along the edges of woods or shrubbery this old-fashioned favorite is one of the best of all hardy plants.

**LONG SPURRED HYBRIDS**

Long Spurred Hybrids—The flowers are very large and distinct shades of blues, lavenders, mauves, whites, creams, pinks, reds, yellows, etc. Many of these colors being entirely new in the species and are the result of very many years' careful hybridization. Per pkt. 15c

Mrs. Scott Elliott's Strain of Long Spurred Hybrids. The blooms are of large size and the spurs very long. The colors range through shades of lavenders, mauves, blues, purples, whites, creams, yellows, pinks, reds, etc. There are no jarring or crude tints, and the whole form a most harmonious mass of coloring seldom seen in other flowers. Per pkt. 25c

Canadensis (Turk's Cap)—Handsome scarlet and orange flowers. Per pkt. 10c

Chrysantha—3 ft. Yellow, long spurred. Pkt. 10c

Coerulea (Rocky Mountain Columbine)—3 ft. One of the most beautiful of our native American flowers. Sepals, deep blue; petals, white. Per pkt. 10c

Coerulea Rosea (Rose Queen)—2 1/2 ft. Beautiful flowers of light to dark rose with white center and yellow anthers, a most delicate combination of colors. Per pkt. 25c

Farquhar Pink—Very fine. Per pkt. 25c

Vulgaris Double Mixed—Per pkt. 10c.

Single Mixed—Many varieties. Per pkt. 10c

Double Mixed—Per pkt. 10c.

**\*ARABIS (Rock Cress)**

Charming dwarf spring-flowering plants of easy cultivation; valuable for beds, edgings. They do well in any soil, but need plenty of sun.

Alpina—6 in. A most useful hardy perennial for spring bedding and rockeries. Early in the spring the pure white flowers make a pleasing contrast in beds and borders with Alyssum saxatile. Pkt. 10c

**ARCTOTIS**

Grandia, the Blue-eyed African Daisy—A quick-growing, half-hardy annual, forming a bush two to three feet across, with soft whitish foliage. The flower stems are long, while the flowers are large and showy—from two to three inches across—color pure white with a blue eye, surrounded by a narrow yellow zone, the under part of the petals being lilac blue; height 18 inches. Per pkt. 10c.

**ARGEMONE**

Grandiflora (The Prickly Poppy)—2 ft. Lovely plants with an ornamental foliage and large, handsome poppy-like flowers, snowy white, filled in the center with golden stamens, very beautiful. Per pkt. 10c.

**\*ARMERIA (Thrift Sea Pink)**

Grand plants for crevices of wall and rocks, and also for growing in flower borders or as permanent edgings; excellent plants for the sea coast. June-July.

Formosa—9 in. Pretty rose pink. Grand for borders. Pkt. 10c

Lauchiana—6 in. June-August. Crimson flowers, deep green tufty foliage. Per pkt. 10c

Maritima—3 to 6 in. May-June. Silvery pink flowers. Per pkt. 15c

**\*ARENARIA (Sand Wort)**

A fine plant for shady place in rock garden.

Montana—White—Pkt. 25c.

**\*ASPERULA**

Odorata Woodruff or Waldmeister. An herb whose leaves are used in making beverages or when dried used to lay among linens. 6 to 8 in. Also useful for carpeting, shady places and for edgings. Per pkt. 10c

**\*ASTER (Michaelmas Daisy)****PERENNIAL ASTERS**

Now fill a most important place in all hardy flower gardens, lighting up the borders and shrubberies with their masses and clouds of dainty and brightly colored blossoms throughout the autumn months up to November, when other flowers are scarce.

Alpinus Goliath—Large, soft blue. Pkt. 20c.

Alpinus Nixe—Light blue, star-shaped. Pkt. 15c.

All sorts Mixed—Extra fine, from a splendid collection; sown early in spring, they will flower the same year. Per pkt. 10c

Those Marked \* are Perennials





## ASTERS

This grand old fall favorite of our grandmother's garden still continues to beautify our garden. By gradual selection this plant now blooms from early summer until frost and its usefulness as a cut flower is unlimited. Our seed is produced by our own growers from stock seed especially selected and controlled by us.

**Culture**—Sow either in the open ground in May or in March or April in cold frame, spent hot-beds or pots or boxes in the house, covering the seed with about  $\frac{1}{4}$ -inch of good rich soil; when the plants are strong enough, transplant about 18 inches apart in deeply dug, well-prepared beds. Asters must not be planted in freshly manured soil nor in soil that has been planted to Asters for two or three years previous. Slaked lime or fresh wood ashes are beneficial if stirred in the soil a little before planting and are said to counteract the ravages of the aster blight. A few soakings with tobacco water around the roots during the growing season is also recommended.

### AMERICAN BEAUTY

Similar in type of flower and growth to the well known Late Branching Asters, but differs in that all the large blossoms are produced on much longer and heavier stems. Some of the individual stems measure more than two feet in length. It makes a very heavy growth, and is one of the latest flowering Asters that we know. This should be in every garden.

American Beauty Carmine Rose.  
American Beauty Crimson.  
American Beauty Lavender.  
American Beauty Peach Blossom.  
American Beauty Purple.  
American Beauty Pink.  
American Beauty Rose.  
American Beauty White.  
American Beauty Mixed.

Per pkt. 10c; any 3 pkts. for 25c.

### GIANT CREGO ASTERS

The Crego is probably the largest of all Asters, the petals being exceedingly long and wavy and the flowers borne on stems some fifteen inches in length. It is a monster among Asters. A real treat awaits anyone who plants this variety.

Crego Pink. Crego Rose Pink.  
Crego Blue. Crego Shell Pink.  
Crego Cattleya Orchid. Crego Crimson.  
Crego Deep Rose. Crego White.  
Crego Purple. Crego Mixed.  
Crego Lavender. Per pkt. 10c; 3 for 25c

### CREGO'S GIANT MIXED ASTER

Our own mixture of the above, each color grown separately and then carefully blended in nearly equal proportions. While we advise the planting of separate colors, this mixture, being specially prepared, will give the planter a fine assortment of all shades. Pkt. 10c

### ROSE CITY MIXTURE ASTER

This special mixture includes all of the newest and is truly an unrivaled mixture. This mixture will afford a splendid supply of flowers during the entire season. The best mixture on the market. Pkt. 10c; 3 pkts. 25c

## ASTERS

### CALIFORNIA GIANTS

A new family of asters produced by a California seed grower and specialist in asters. They combine the robust habit of growth and length of stem that characterizes the Beauty type and the Crego or Ostrich Feather type of flower. A true non-lateral type.

California Giants Peach Blossom.  
California Giants Light Blue.  
California Giants Light Purple.  
California Giants Deep Rose.  
California Giants White.  
California Giants Dark Purple.  
California Giants Mixed.

Per pkt. 10c; 3 pkts. for 25c

### CALIFORNIA GIANTS MIXED ASTER

Our own mixture of the above, each color grown separately and then carefully blended in nearly equal proportions. While we advise the planting of separate colors, this mixture, being specially prepared, will give the planter a fine assortment of all shades. Pkt. 10c

### GIANT OSTRICH FEATHER ASTER

The finest type of the Giant Comet, or Ostrich Feather type of Aster. Much larger than the Giant Comet, the petals longer, more twisted, and produced in greater abundance. Borne on long stems, they make cut-flowers par excellence.

Soft Pink. Crimson. Sky Blue.  
Rose. Light Blue. White.  
Cinnabar—Dark Blue. Pink.  
Terra Cotta Rose Pink.  
White turning to Sky Blue.

Each of the above, pkt. 10c; any 3 pkts. for 25c.  
Mixed, all colors, pkt. 10c.

### THE KING ASTER

The habit is similar to the popular Giant Branching, vigorous in growth, long stiff stems. In form the flower is entirely distinct from any other variety; petals somewhat resemble the quilled varieties, but are much larger and broader, those in the center being curled and incurved, completely covering the crown. In shape and size the bloom is round, full and very large.

White. Blackish Blue. Lavender.  
Pink. Crimson. Mixed,  
Rose. Violet. all colors.

Each of the above, pkts., 10c; any 3 pkts. for 25c.

### GIANT BRANCHING COMET

This is one of the most popular and distinct types of Asters as well as being of the earliest period of bloom. Plants grow 12 to 15 inches in height, branching freely. The outer petals are broad, flat, and reflexed (curving outward), while the center of the flower is composed of many short petals, slightly pointed. The whole flower has a distinctly feathery effect resembling that of the Japanese Chrysanthemums.

Comet White. Comet Lavender.  
Comet Pink. Comet Dark Blue.  
Comet Rose. Comet Crimson.  
Comet Rose-Pink. Comet Purple.  
Comet Light Blue. Comet Mixed.

Per pkt. 10c; 3 pkts. 25c, postpaid.

### SINGLE GIANTS OF CALIFORNIA

It was developed out of the Double Giants of California type. The flowers are large, measuring three to four inches across, with stems 18 to 24 inches in length. The petal has a slight twist, which adds a piquant touch to its beauty. The white blossoms resemble Shasta Daisies in appearance, but their greater length of stem makes them more graceful and better adapted to florist's use. In the garden, the Single Giants of California add a charming note of simplicity among the fuller types of Asters. We believe this new, single type of Aster is destined to become very popular.

We can supply this in White, Rose, Light Blue, Purple, and Mixed, at 15c per pkt., 2 pkts. 25c.

### SINGLE MARGUERITE ASTER

Plants strong, vigorous and of handsome pyramidal habit, very free blooming, and produce their beautiful flowers on long slender stems. The flowers are from 2 to 3 inches in diameter, with small yellow centers, and last a week when cut.

Scarlet. White.  
Dark Blue. Mixed.  
Lavender. Per pkt. 10c each; 3 pkts., 25c

### PEERLESS YELLOW ASTER

This is the best yellow Aster. The flowers are of fair size; they are borne on long stems; the color is a pleasing light yellow. Pkt. 15c.





### IMPROVED NEW ASTER

**Giant California Sunshine Mixed**—They are the result of a direct cross between the now well-known California Giants and the dwarf, much-branched Sunshine type, hence the name. Plants of this new race grow 3 feet high and bear blossoms on long, stiff stems, admirable for cutting. The individual blooms are enormous, 4 to 5 and 6 inches in diameter.

With the disk a lovely light-yellow and the encircling guard petals varying shades of Enchantress pink, apple blossom, deep-rose, blue and lavender, there are produced color contrasts startlingly beautiful. Pkt. 25c

### THE SUNSHINE ASTER

The plants are bushy and strong, with many flower stalks. Some of the flowers have twisted petals and some have quilled petals; all have a cushion center of tiny quills of a contrasting color which makes a flower look as if it were covered with snowflakes. The blue flowers are dotted with a paler blue and some in white, and the rose in a lighter shade of pink or white.

|            |             |
|------------|-------------|
| White.     | Light Blue. |
| Flesh.     | Lilac.      |
| Pink.      | Dark Blue.  |
| Dark Rose. | Mixed.      |

Each of the above, pkt. 10c.

### AMERICAN ASTERMUM ASTER

An attractive and descriptive name for a new race of asters which belong to the Comet family. The plants are of strong upright growth with 12 to 15 strong stems 20 inches long, each carrying a flower of perfect form.

|                     |             |
|---------------------|-------------|
| Lavender.           | Rose Pink.  |
| Mixed three colors. | Snow White. |

Each of the above, pkt. 10c; 3 pkts. for 25c

### HEART OF FRANCE ASTER

**Heart of France** opens red as the purest ruby, deepens with age and retains its remarkable color to the very end. The petals appear strikingly changeable, showing now a glow and sheen quite unique, now a soft warm velvety texture. In any light, natural or artificial, Heart of France is startlingly beautiful and will command instant admiration. Pkt. 10c.

### LAVENDER GEM ASTER

One of the most beautiful Asters. It is of true Comet type, with large, artistic, loosely-arranged flowers on long, wiry stems, and of the most charming shade of lavender imaginable. Begins blooming in July, continuing through August; a lovely variety for cutting. Per pkt. 10c; 3 pkts. 25c

### ROSE CITY MIXTURE ASTER

This special mixture includes all of the newest and is truly an unrivaled mixture. This mixture will afford a splendid supply of flowers during the entire season. The best mixture on the market. Pkt. 10c; 3 pkts. 25c

### \*AUBRIETIA

**Large-Flowered Hybrids.** The beautiful mauve spring bedding plants makes the garden so gay in the early months of the year. Aubrietias produce great masses of bloom and are charming companions of Yellow Alyssum and White Arabis. Grows well from seed. Sow in June and plant out in autumn where required for flowering in spring. A valuable strain including a wide range of many unusual colors which cannot be fixed and offered separately. Height 6 inches.

Pkt. 25c

### \*AURICULA

These are among our most delightful spring flowers. They require a partially shaded location.

**Auricula**—6 in. Flowers in early spring in colors of yellow, brown and red. Per pkt. 25c

### BABY BREATH (See Gypsophila)

### BACHELOR'S BUTTON

See Centaurea.

### BALLOON VINE

Thrives in light soil. One of the prettiest climbers. Remarkable for its inflated membranous capsules containing the seed. It is sometimes called Love in a Puff. Flowers white. Pkt. 5c.

### BALSAM

**Balsam or Lady Slipper**—Double Camelia Flowered—An old and favorite garden flower, producing its gorgeous masses of beautiful brilliant colored double flowers in the greatest profusion; of easy culture; succeeds in a good rich soil. Our strain is unrivaled for great variety and size of flowers.

Double Bright Scarlet.

Double Rose.

Double White.

Double Salmon Rose.

Finest Double Mixed.

Per pkt. 5c.

### BALSAM (Apple) (Pear)

**Apple**—10 ft. A very ornamental and quick growing climber. While it has a flower, it is grown mostly for the effect of the fruit which follows. This is yellow, looks not unlike an apple—hence its name. When ripe it opens and shows the seeds and blood-red interior.

Per pkt. 10c

**Pear**—like above, only the fruit is pear-shaped.

Per pkt. 10c

**Balsam**—Apple and Pear mixed. Per pkt. 5c.

### BARTONIA

**Aurea**—12 in. One of the most showy of annuals, excellent both for beds and borders; producing showy, golden-yellow flowers. The foliage is gray and thistle-like, and is exceedingly brilliant in the sunshine. It will not stand transplanting, so should be sown where intended to bloom. Sow in the open ground early in May. Blooms through summer and fall. Per pkt. 10c

**BELLIS**—See Daisy.

### \*BOCCONIA

**Cordata (Plume Poppy)**—5 ft. A handsome border plant, having large lobed heart-shaped leaves with silvery undersurface, and flower plumes of a pretty cream color. Per pkt. 10c

### BRACHYCOME (Swan River Daisy)

A free flowering dwarf-growing annual which is covered during the greater part of the summer with an abundance of pretty blue and white flowers. Fine for edging, small beds or pot culture. Height, 9 inches. Pkt. 10c

### BRIZA

**Maxima (Quaking Grass)**—12 in. Valuable for winter bouquets and wreaths. The seed clusters are heart-shaped and gracefully poised on such slender stems that they are almost constantly in motion. Per pkt. 10c

### BURNING BUSH—See Kochia.

### BROWALLIA

A half-hardy annual, making a fine bedding plant. Blooms profusely. The flowers are bright ultra-marine blue, and also sky-blue with white center. Mixed, pkt. 10c

### CACALIA—2 ft.

Each flower is a miniature paint brush of orange-scarlet produced on long wiry stems which make it an excellent cut flower. An old but little known annual for the border worth trying.

**Tassel Flower or Flora's Paint Brush**—Scarlet and orange mixed. Pkt. 10c

### \*CALAMINTHA

**Alpina**—6 in. A very graceful little rock plant, spreading tufts of pretty foliage, spangled with lavender blue flowers. Per pkt. 25c



**CALENDULA (Pot Marigold)**

This is the Marigold of Shakespeare's time. An annual of easy culture. Plants grow about one foot high and one foot in diameter and literally covered with large double flowers. Blooms from July to frost.

**Orange King**—The outer petals are slightly imbricated, while those of the center are curved like those of the peony. Color glowing orange. Pkt. 10c

**The Ball**—It has fine stems, immense double flower of a brilliant glisteny orange. A great favorite on the Cut Flower Market. Pkt. 10c

**Balls Gold**—Dark golden yellow. Pkt. 10c

**Lemon Queen**—Large sulphur yellow. Per pkt. 10c.

**All Colors Mixed**—Per pkt. 5c.

**Campfire**—Has proven to be the best forcing orange Calendula on the market. The flowers are extremely large and very dark orange with a scarlet sheen, making them most attractive. This strain has been carefully selected and will produce very strong stems with few buds on them, which gives the advantage for forcing purposes. Pkt. 10c.

**CALIFORNIA POPPY**

See Eschscholtzia.

**CALLIOPSIS (Tickseed)**

Very graceful border plants, supplying throughout summer an abundance of elegant showy flowers which are greatly prized for bouquets and vases. They will thrive anywhere, even in city gardens, where their bright colors are highly appreciated.

**Golden Wave**—Flowers yellow with a circle of rich crimson-brown around the eye. Per pkt. 5c

**Crimson King**—Per pkt. 5c.

**Golden King**—Pkt. 5c.

**Radiata Tigrinia (Tiger Flower)**—6 to 8 in. Flowers large reddish-brown, turning golden yellow. Per pkt. 10c

**Tall Double Mixed**—Per pkt. 5c.

**Tall Single Mixed**—Per pkt. 5c.

**Special Mixed**—Per pkt. 5c.

**\*CAMPANULA (Canterbury Bells)**

**Bellflower**—Well known, beautiful, hardy herbaceous perennials, bearing a great production of attractive bellflowers; thrives best in light, rich soil; some of the varieties flower the first season if sown early.

**Single Finest Mixed**—All colors. Pkt. 5c.

**Carpatica**—Single Blue, grows 1 ft. high; compact; good for borders. Pkt. 5c

**Double Blue, White, Rose or Mixed**—Pkt. 10c.

**Campanula Calycanthema**—Cup and Saucer—Lilac, Rose (delicately rosy-pink), Pkt. 10c; White (pure white), Pkt. 10c; Blue (a fine clear shade), Pkt. 10c; Mixed (all colors), Pkt. 5c; Striped (white, striped blue), Pkt. 10c.

**Persicifolia, Mixed (Peach Bells)**—Beautiful bell-shaped flowers which come in colors of blue and white. Pkt. 10c

**Pyramidalis, Blue (Chimney Bellflower)**—Rich blue saucer-shaped flowers; 18 inches high. Pkt. 10c

**Pyramidalis, White**—A pure white form of the above. Pkt. 10c

**CANARY BIRD FLOWER**

This is one of the most beautiful of climbers, with handsomely fringed rich yellow flowers and delicate foliage. Per pkt. 5c

**CANDYTUFT (Hyacinth Flowereal)**

Candytuft has long been among the most highly prized of garden annuals. The best effect is produced by raising the plants in masses, and sowing the seeds where the plants are to bloom.

**Little Prince**—Dwarf white. Pkt. 5c; oz. 70c.

**White Empress**—Very sweet and attractive. Pkt. 5c; oz. 50c

**CANDYTUFT (Iberis Umbellata)**

**Lilac**—Per pkt. 5c. **Flesh**—Pkt. 5c.

**Crimson**—Per pkt. 5c. **White**—Pkt. 5c.

**Rose**—Per pkt. 5c. **Lavender**—Per pkt. 5c.

**Rose Cardinal**—Pkt. 5c. **Mixed**—Per pkt. 5c.

**\*CANDYTUFT (Perennial)**

Dwarf evergreen plants, 6 to 10 in., covered with blooms in spring and early summer. Excellent for rockeries or borders where bright dwarf masses are wanted.

**Gibraltarica**—Pinkish white. Per pkt. 10c.

**Sempervirens**—Flowers form a sheet of whiteness. Per pkt. 10c

**\*CANNA**

The seed should be pierced in one spot with a file and soaked in lukewarm water for 24 hours before sowing. A splendid lot of plants may be produced.

**Choice Mixed**—Pkt. 5c.

**CANTERBURY BELLS (See Campanula)  
CARDINAL CLIMBER**

**Ipomea Quamoclit Hybrida**—The finest new annual climber introduced in many years. Very graceful and beautiful, growing rapidly, and in a warm, sunny location, in good soil, it reaches a height of 20 feet and is densely clothed with deeply laciniate palm-like, rich green leaves, bespangled with clusters of fiery scarlet, tubular spear-shaped flowers, measuring 1¼ inches across. Pkt. 10c

**\*CARNATIONS**

A half-hardy, perennial, used generally for greenhouse florist's trade in winter and for a general garden favorite in summer. There are a large number of varieties and colors, but the early flowering mixtures are recommended for out-of-door culture. Sow the seed early in the year and transplant in March or April.

**Chabaud Mixed**—A remarkable strain raised by a Carnation specialist. Blooms in 5 months after being sown, and continues to flower indefinitely in the greatest profusion. Pkt. 100 seeds, 15c

**Chabaud Double Dark Red**. Pkt. 15c.

**Chabaud Double Scarlet**. Pkt. 15c.

**Chabaud Double White**. Pkt. 15c.

**Chabaud Double Yellow**. Pkt. 15c.

**Finest Double Mixed**—Saved from extra fine flowers. Pkt. 25c

**\*CARNATIONS**

**Engleman's**—We believe that there is no better carnation than this, over 80 per cent will be double and is a perpetual bloomer. Mixed, per pkt. 25c

**CARNATION**

**Marguerite**—This exceedingly valuable departure in Carnations has proved a complete success. Its most important feature is the fact that it flowers easily the first year from seed—that is, from seed sown in February or March, plants can be had in full bloom by August. The proportion of fine double flowers is very great, being usually 70 to 80 per cent; these are varied and beautiful in color and exceedingly useful for cutting. The habit of the plant is robust, and hence very useful for bedding purposes. Finest mixed. Pkt. 5c

**CELOSIA CRISTATA (Cockscomb)**

Showy, half-hardy annuals of easy cultivation; 1 foot; producing large, brilliant, comb-like flower heads.

**Tall Crimson**—Pkt. 10c.

**Dwarf Mixed**—All the above and others. Pkt. 10c; ⅛ oz. 30c

**Tall Cockscomb Mixed**—18 to 24 in. Pkt. 10c

**Plumosa or Plumed Varieties**—2½ to 3 ft. These stately plants are considered among the most ornamental, and should not be omitted in any garden. They generally form pyramidal bushes branching out in candelabra shape, and the numerous massive plumes which resemble ostrich feathers, wave gracefully above the foliage.

**Plumosa Mixed, all colors**. Pkt. 5c, ¼ oz. 15c.

**CELOSIA**

**The Chinese Woolflower (Celosia Childsii)**—Plants grow two to three feet high, the bloom starting early with a central head, round and globular, which often reaches the immense size of two feet in circumference. Scores of branches are thrown out, each bearing a ball of scarlet wool. All these branches support numerous laterals with small heads of bloom mixed with fresh green foliage, so that a plant looks like an immense bouquet splendidly arranged and set in the ground. None of the blooms fade in any way until hit by frost; but all continue to expand and glow with a deepening richness of color, a dark crimson-scarlet. Pkt. 15c

**Childsii Yellow**. Pkt. 15c. **Childsii White**. Pkt. 15c.

**Childsii Scarlet**. Pkt. 15c. **Childsii Mixed**. Pkt. 15c.

**You Can**

Select 7-5c packages for.....25c  
Select 8-10c packages for.....50c  
Select 5-15c pkgs. Flower Seeds for 50c



**CENTAUREA****Double Cornflowers (Centaurea Cyanus)**

These are also known as Bachelor's Buttons, Blue Bottle, Ragged Sailor, Bluet and sometimes as Ragged Robin, but which name belongs to one of the *Lychnis* and frequently results in confusion. It is always best to order by the botanical names. They are well known to every flower lover and always included in old-fashioned gardens.

Blue—This is the dark blue sort so much in demand for cutting. Pkt. 5c; oz. 30c.

White. Pkt. 5c, oz. 25c. Pink. Pkt. 5c.  
Mixed. Pkt. 5c.

**CENTAUREA IMPERIALIS  
(Sweet Sultans)**

This beautiful class is undoubtedly the finest of all Sweet Sultans for cut-flower purposes. The charming, sweet-scented, artistic-shaped flowers are borne on long, strong stems and when cut will stand for several days in good condition. It is best, in this latitude, to sow very early in the spring, so that they may perfect their flowers before very hot weather comes; 2½ feet.

Following distinct colors:

Brilliant Rose. White.  
Purple. Mixed.  
Deep Lavender. Rosy Lilac.  
Moschata Mixed—Sweet Sultan, white, red and blue.  
Pkt. 5c

**CENTAUREA (Dusty Miller)**

Candidissima—10 in. Thick silvery white leaves, used for bedding purposes. Pkt. 10c

Gymnocarpa Dusty Miller—1 ft. Foliage finely cut of silvery gray color, used for bedding. Pkt. 10c

**\*CENTAUREA (Perennial)**

A dry, sandy soil of moderate fertility, seems to suit them best, keeping up a profusion of bloom all summer.

Montana, Blue—Large-flowered perennial Cornflower. Pkt. 10c

Montana alba—White. Pkt. 10c.

**\*CERASTIUM**

Tomentosum (Snow in Summer)—4 in. Silvery white foliage, covered with snow-white flowers in early summer. Per pkt. 15c

Biebersteini—White. Pkt. 10c.

**\*CHEIRANTHUS**

Allioni—1 ft. Fine rock or border plant with orange flowers. Pkt. 10c

**\*CHELONE**

Long coral-red spike like a pentstemon.

Hybrida, Mixed (Turtle Head)—3 ft. July and August. Allied to Pentstemon; throws out long spikes of brilliantly-colored flowers. Pkt. 10c

Barbatus Coccinea—Red. Pkt. 10c.

**CHRYSANTHEMUM**

These outdoor "summer Chrysanthemums" are showy for bedding or borders in the garden and desirable for cut flowers. Plants become more bushy and shapely if pinched back in early growth and the practice of disbudding will result in much larger flowers. These annuals are not the winter flowering sorts sold by florists and which are propagated only by division of roots.

Coronarium—Double Tall Mixed. Pkt. 5c.

Coronarium—Double Dwarf Mixed. Pkt. 5c.

Carinatum—Single Mixed. Pkt. 5c.

Carinatum—Double and Single Mixed. Pkt. 5c.

**CLARKIA**

One of the prettiest and showiest of hardy annuals that bloom freely and have flowers of such various bright colors that a bed of them in full bloom is a beautiful sight; useful for hanging baskets, vases and as edgings to beds of larger growing plants. Sow outdoors in early spring and grow in partial shade. The plants keep up a continuous bloom through midsummer to late autumn. Average height 1½ ft.

Alba Elegans—Double pure white.

Apple Blossom Elegans—Double pink.

Brilliant Elegans—Double salmon pink.

Salmon Queen Elegans—Double salmon.

Scarlet Queen Elegans—Double orange scarlet.

Purple Prince Elegans—Double purple.

Choice of above, pkt. 5c

Double Elegans Mixed. Pkt. 5c; ¼ oz. 15c.

Double and Single Mixed. Pkt. 5c; ¼ oz. 15c.

**CLEOME**

Pungens (Spider Plant)—5 ft. A showy garden annual producing curious heads of flowers of bright rose color; of easy cultivation, blooming until late; a good bee plant. Pkt. 10c

Those Marked \* are Perennials

**COBOEA**

Coboea Vine, Cathedral Bells—One of the handsomest and most rapid growing annual climbers, running up to 30 feet in a season. The flowers are bell-shaped and of a purplish lilac when full grown. It is a very prolific bloomer, one that makes a show the first year, both in vines and flowers, one that is always clean of insects. We know of none better. ¼ oz. 15c

Blue—Pkt. 5c; White—Pkt. 5c; Mixed—Pkt. 5c.

**COCKSCOMB (See Celosia Cristata)****COIX LACHRYMAE (Job's Tears)**

Curious ornamental grass with broad, corn-like leaves and lustrous slate colored seeds used for beads. Valuable winter bouquets with everlasting flowers. Plant outdoors early spring in hills 3 ft. apart. Pkt. 5c; oz. 15c

**COLUMBINE (See Aquilegia)****\*COREOPSIS (Tickseed)**

One of the most popular hardy plants, the flowers are a rich golden yellow of a beautiful graceful form and bloom June to October.

Lanceolata Grandiflora—2 ft. Large orange-yellow flowers on long graceful stems. About the best yellow cut flower blooming incessantly. Pkt. 10c

**\*COREOPSIS (Double)**

Lanceolata Grandiflora Fl. Pl. (Double Flowering Coreopsis)—This new double and semi-double form is just as easy to grow as the single and the extra petalage adds a further charm to the flower. Pkt. 10c

**CORNFLOWERS (See Centaurea)****COSMIDIUM**

Two feet. The flowers are golden yellow with a broad circle of a rich orange around the disc, a pleasing combination. Plants produce a succession of bloom all summer. Pkt. 10c

**COSMOS**

One of the best and showiest annuals for late summer blooming. The flowers are borne on long stiff stems and with the feathery foliage make beautiful bouquets. Will last about a week in water.

Mammoth Flowering—White, pink, red, crimson or mixed. Pkt. 10c; ¼ oz. 20c

**EARLY FLOWERING COSMOS**

Seed started early in the house or frame, will produce flowers a month earlier than Mammoth.

Crimson. Pkt. 10c. White. Pkt. 10c.

Pink. Pkt. 10c. Mixed. Pkt. 10c, ¼ oz. 30c.

**COSMOS CRESTED**

Anemone Flowered or Crown and Crested—These differ from the other cosmos in the formation of the center of the flower, which develops a crown or crest, like an anemone, the guard petals remain the same.

Crimson. White Queen.

Malmaison Pink. Mixed.

Pink Beauty.

Each of the above, pkt. 10c.

**COSMOS**

Klondyke—A gorgeous orange-yellow flower with very handsome foliage more coarsely lacinated than others. Pkt. 10c



**\*CRUCIANELLA**

*Stylosa*—Tangled masses of elegant foliage, with crowned heads of light red flowers. Pkt. 15c

**CYNOGLOSSUM (Chinese Forget-me-not)**

This easily grown annual deserves to be grown quite extensively on account of its wide range of adaptation, easy culture, and attractiveness. It thrives in a dry sunny location where few other flowers will make a show and blooms continuously from June until September. No special care is required to create attractive beds or borders with it.

Sow the seed during April or May, covering it with  $\frac{1}{4}$  inch of fine soil. When plants are about 2 inches tall thin to stand 6 inches apart. The plants will soon bear a mass of bright blue Forget-Me-Not-like flowers. Pkt. 10c.

**CYPRESS VINE (Ipomoea Quamoclit)**

CYPRESS VINE

A most beautiful rapid growing climber with delicate dark green, feathery foliage and many bright, star-shaped, scarlet or white blossoms. Planted by the side of veranda, tree or stakes, and trained properly, there is no handsomer climber.

Seed is usually sown outdoors early in spring in the row where the plants are to remain. Cover seed one-half inch deep. Germination will be hastened if the soil is warm and kept in moist condition. Thin the young plants four to six inches apart. Tender annual; About 15 feet high.

Rose—Pkt. 5c; oz. 25c.

Scarlet—A very deep, rich shade. Pkt. 5c; oz. 25c.

White—Clear paper white. Pkt. 5c; oz. 25c.

Mixed—The two colors above. Pkt. 5c; oz. 20c.

**\*DAHLIA**

A favorite for autumn flowering blooming the first season from seed if started early. The flowers are so symmetrical and perfect and the range of colors so wide and varied that they will always be popular where display is wanted.

Seed may be sown in spring in open ground after danger of frost is over, but for best results sow in shallow pans at any time from March to June, and transplant the seedlings to small pots. When strong enough and danger from frost is over plant out one foot apart. These plants will produce tubers which should be taken up in the fall and replanted the following spring; these roots will flower freely the following autumn. Tender herbaceous perennial, three to four feet high.

Finest Double Mixed—Seeds saved from choicest double flowers, including shades of red, pink, dark maroon, yellow, white, etc. Pkt. 15c.

Finest Single Mixed—Will produce brilliant flowers running through a wide range of striking colors. Pkt. 10c; oz. 50c.

Finest Cactus—From the best varieties, mixed. Pkt. 10c

Collarette—Our special strain of Collarette varieties contains a great variety of distinct shades and colors, the majority being equal in form to named varieties. Pkt. 10c

All Varieties Mixed. Pkt. 10c.

DAHLIA BULBS (See pages 61, 62, 63)

**\*DAISY**

Daisy, or *Bellis Perennis*—Plants of Double Daisy will bloom the first summer and will continue to bloom for years if given slight protection during the winter. They are very pretty when in bloom, and deserve to be grown much more than they are. They commence blooming in April and continue to bloom until summer. They are not very particular as to soil, but should be grown where they have partial shade.

Double Red. Pkt. 10c.

Pink. Pkt. 10c.

Double Rose—Finest strain. Pkt. 10c.

Double White—Clear white. Pkt. 10c.

Double Mixed—Shades of rose and white. Pkt. 10c.

**\*SHASTA DAISY**

A fine perennial plant bearing large white single blossoms, with yellow centers; an excellent cut flower and admired everywhere. Soak seed in warm water over night before sowing. Pkt. 10c.

**\*DATURA**

Seed may be sown outdoors after danger of frost is over, but for early blooming sow in hotbed and transplant about three feet apart each way. Roots can be kept all winter in cellars. Tender annual; three feet high.

*Wrightii*—Pure white at the center shaded into lilac and blue; magnificent large single flowers. In warm latitudes can be continued as a perennial. Pkt. 10c.

**\*DELPHINIUM**

*Delphinium*—Hardy Larkspur. Very decorative border plants ranging in height from the 18-inch Cashmerianum to the stately Hybrids, 5 to 6 feet tall, whose side shoots flower after the main spike has finished, thus prolonging the blooming period. If the flower spikes are removed as soon as they fade, new ones will continue to appear, at intervals all summer. The colors run from pure white to darkest blue. Some varieties have a black center, others show a pleasing contrast, in shades of blue, between the inner and outer petals. Stake all varieties when 18 inches high to prevent them from blowing down.

*Butzer's Portland Hybrids*—This mixture is a wonder. The plants are strong and vigorous. The flower spikes are tall and graceful, covered from bottom to top with the most beautiful hollyhock-like flowers. The colors are from the palest lavender to the richest blue, some with white centers, others with black, reminding one of bees at work. Pkt. 15c

*Belladonna*—Light Blue. 2 feet. Flowers exquisite shade of turquoise blue. Pkt. 15c.

*Belladonna*—Dark Blue. Pkt. 15c.

*Chinese Album*—White. Pkt. 5c.

*Cardinale*—Brilliant scarlet. Pkt. 10c.

*Chinese Dark Blue*. Pkt. 5c.

*Chinese Light Blue*. Pkt. 5c.

*Chinese Blue Butterfly*. Pkt. 5c.

*Finest Mixed*. Pkt. 5c.

*Nudicaule Scarlet*. Pkt. 25c.

DIANTHUS—See Pinks

**DIDISCUS (Blue Lace Flower)**

*Coeruleus*—This pretty and interesting annual blooms most profusely from July until November; plants grow about 18 inches high, and have as many as 50 flowers open at one time. Pkt. 15c

DIGITALIS (See Foxglove)

**DIMORPHOTHECA**

(African Golden Daisy)

*Aurantiaca*—(Golden Star of the Veldt)—1 ft. Rare and very showy annual from South Africa, having daisy-like flowers of a glossy salmon-orange shade with black central ring, a lovely color when flowers open in the sun.

*Dimorphotheca*—New Shades—Salmon Beauty, White Beauty, Golden West, Orange, Mixed. Per pkt. 10c

**DIMORPHOTHECA RINGENS**

A beautiful species of the Cape Marigold, of light graceful habit and bearing elegant white flowers, 3 in. across, with dark blue-spotted center, reverse of petals blue and mauve; in bloom from spring to autumn. Pkt. 10c

**DOLICHOS (Hyacinth Bean)**

*Princess Helen*—(Daylight)—Snow white flowers followed by silvery white seed pods. 1 oz. 25c; Pkt. 5c

*Purple Soudan*—(Darkness)—Attractive rose-violet flowers with dark ruby-purple seed pods. 1 oz. 25c; pkt. 5c.

Mixed, all colors—2 oz. 35c; 1 oz. 20c; pkt. 5c.

*Echinocystis Lobata*—See Wild Cucumber.

**\*EDELWEISS**

*Leontopodium Alpinum*—4-12 in. June-July. The true and famous Edelweiss of the Alps. The flowers are of downy texture, pure silver white and star-shaped. Succeeds in almost any soil with full exposure to sun. Per pkt. 25c

**\*ERIGERON (Flea Bane)**

Valuable summer flowering plants with elegant single aster-like flowers, much prized for cutting.

*Elatier Speciosus Hyb. Grandiflorus*—Large flowers, rich purple. Pkt. 20c

*Elatier Grandiflorus*—Rosy. Pkt. 20c.



**\*ERINUS**

**Alpinus**—Pretty rosettes of foliage and racemes of rosy purple flowers. A first rate rock plant and also invaluable for establishing on old walls or between steps. 4 in. May-June. Per pkt. 35c

**\*ERYSIMUM**

**Pulchellum** (Fairy Wallflower)—A new dwarf species forming close mats of dark green, later eclipsed with yellow bloom. Sandy soil. Per pkt. 15c

**ESCHSCHOLTZIA**

**Eschscholtzia**, or **California Poppy**—A hardy annual, with fine-cut, feathery foliage and beautiful velvety cup-shaped flowers. Grows from one to one and a half feet high, and blooms profusely. Seed may be sown in the fall, and any time thereafter till April, and blossoms may be had from early in January till late in summer. Of the easiest culture. Any soil will do, but the better the soil the larger the plants and blossoms. It is best to sow the seed in the garden, where the plants are to remain, as they do not transplant easily.

**Alba** (Pure White). Pkt. 5c.  
**Canaliculata Rosea**—Rosy pink. Pkt. 5c.  
**Carmine King**—Deep carmine. Pkt. 5c.  
**Chrome Queen**—Amber yellow. Pkt. 5c.  
**Crimson**—Carmine crimson. Pkt. 5c.  
**Dainty Queen**—Coral pink on cream ground. Pkt. 5c.  
**Golden West**—Yellow orange center. Pkt. 5c.  
**Lovely**—Rose pink suffused salmon. Pkt. 5c.  
**Mikado**—Orange crimson. Pkt. 5c.  
**Purple Glow**—Reddish purple. Pkt. 5c.  
**Scarlet Beauty**—Deep scarlet. Pkt. 5c.  
**Tango**—Bronze red overlaid Terra Cotta. Pkt. 5c.  
**The Geisha**—Inside petals brilliant gold, outside orange crimson petals fluted. Pkt. 10c.

**Mixed**—An excellent mixture producing deep yellow creamy white, scarlet and orange flowers. Pkt. 5c; oz. 40c.

**FORGET-ME-NOT (Myosotis)**

Half-hardy perennial, which flowers the first year from seed if sown early. Will bring forth lovely blossoms throughout the whole summer and fall. Flowers are borne on long stiff stems, and of the most exquisite colors. They succeed best with moisture in a somewhat shaded position.

**Blue**. Pkt. 5c. **Pink**. Pkt. 10c.  
**White**. Pkt. 5c. **Mixed**. Pkt. 5c.

**FOUR O'CLOCK**

**Marvel of Peru**—A hardy annual, growing luxuriantly in any ordinary soil, and bearing a profusion of bright, handsome flowers of various colors, shades and markings. Flowers open at four o'clock, close in the morning. Choice Mixed. Pkt. 5c; oz. 20c

**\*FOXGLOVE (Digitalis)**

**Digitalis**—A hardy perennial, blooming the second year from seed. Grows usually about 3½ feet, although in very rich soil sometimes 6 feet. The bell-shaped flowers are borne on long spikes, and come in shades of purple, lavender, rose and white, all spotted lightly inside the blossoms. Thrives best in cool, shady locations.

**Gloxiniaeflora**—This is a fine strain of the ordinary Foxglove (*D. purpurea*), with handsome spotted Gloxinia-like flowers on long spikes.

**Purple**. Per pkt. 10c. **White**. Per pkt. 10c.  
**Rose**. Per pkt. 10c. **Mixed**. Per pkt. 10c.

**The Shirley**—A magnificent strain of the highest beauty, the results of many years of careful re-selection by the Rev. W. Wilks in his famous garden at Shirley; growing 5 to 7 ft. high, the 4-ft. long inflorescences bearing enormous flowers ranging from pure white to the deepest rose, and wonderfully blotched and spotted dark maroon, crimson and chocolate. Pkt. 15c.

**Lutzi**—Salmon. Pkt. 10c.

**Butzer's Special Mixture of Digitalis**—A grand mixture of the above, and many other colors. Pkt. 10c.

**GAILLARDIA (Blanket Flower)**

Both the annual and perennial varieties of Gaillardia are very showy and free bloomers all summer long until frost; good in any situation and easily grown. The individual flowers are of large size, very durable, and most brilliant in color; fine for bouquets. 2 to 3 ft.

**\*Portola Hybrids**—The plant is of strong, vigorous, erect habit of growth, from 2½ to 3 ft. high; the stems are strong, and stiff, holding the flowers erect; these are of large size, nearly 4 inches in diameter, the petals being very broad and overlapping, of great substance, and spread out flat, forming a very regular flower; in color a brilliant scarlet with coppery hue which is intensified by the golden yellow with which each petal is heavily tipped. Comes about 50% true from seed. Pkt. 10c.

**\*Dazzler**—Large flowers up to 5 inches across, bright golden yellow with rich maroon red center, fine for cutting. Pkt. 10c

**\*Stand-Holder**—Large flowers, more or less yellow bordered, and with lighter or darker red wings around the center. The petals are broad but occasionally tubular with an inclination to doubleness. Blooms early and the stems are stiff and long. Pkt. 10c

**\*Grandiflora** (Perennial)—A compact variety, forming bushy plants 12 to 15 inches high, and bearing its long-stemmed flowers well above the foliage. In coloring the flowers are as rich and varied as those of the tall-growing sort. Pkt. 10c; oz. 50c

**\*Butzer's Special Mixture of Gaillardias**—A grand assortment of all varieties. Fine for cut flowers. Pkt. 10c

All the following Picta sorts are most elegant annuals and well deserve generous plantings.

**Picta**—Red and yellow; very brilliant. Pkt. 5c; oz. 50c

**Picta, Lorenziana**—Double; mixed colors; flowers large. Pkt. 5c; oz. 50c

**Picta, Mixed**—Finest colors. Pkt. 5c; oz. 50c.

**GAURA**

**Lindheimeri**—3 ft. A graceful plant bearing numerous spikes of rosy white flowers from July until frost. Pkt. 10c

**GERBERA (Transvaal Daisy)**

**Jamesoni Hybrids**—They are half-hardy perennials, usually grown as greenhouse or window plants. The daisy-like blossoms, 2 to 4 inches across, being borne on long stems, are unsurpassed as cut flowers, as they are of wonderful lasting quality. For garden culture in cold climates the plants are wintered over in cold frames like pansies, etc. They are easily grown from seed and will commence flowering the first year, although old plants will produce the greater abundance of bloom. The colors include a galaxy of incomparable delicacy and richness, in which a wilderness of tints from pure white through yellow, orange, salmon, rose, cerise and ruby-red to violet are represented. Does remarkably well in California. Pkt. 25 seeds, 25c

**Gerbera**—Scarlet shades. Pkt. 25c.

**\*GEUM**

Geums belong to the Rose family. The species described are showy, free-flowering kinds producing a wealth of attractive flowers which are much prized for cutting. They are of a tufted habit of growth with pinnate leaves. Excellent for border culture. To avoid wilting after cutting put stems in warm water.

**Lady Stratheden (Golden Ball)**—Flowers loosely double, a delightful shade of golden yellow. Cut blooms of this with sprays of Euphorbia Polychroma make a charming cut flower combination. Pkt. 15c.

**Mrs. Bradshaw**—The double orange-scarlet flowers are very large and full; comes quite true from seed and blooms the first year. 2 ft. June-September. Pkt. 10c

**GILIA**

A hardy annual, growing 12 inches high, small delicate flowers valuable for rock work or borders. Tall Sorts, Mixed. Pkt. 5c, ½ oz. 15c.

**\*GLOBULARIA (Globe Daisy)**

Shrubby plants for the hardy garden or rockery, producing fluffy balls of blue flowers during the summer. They all require light soil in a warm, sunny position.

**Trichosanthe**—Dark blue. 12 in. Pkt. 20c.

**GODETIA—Dwarf**

A hardy annual, very valuable for bedding and borders. For mass effects in shades of rose, red or pink it is unexcelled. The satiny cup-shaped flowers cover the compact-growing plants. The seed should be sown in the fall or early spring.

**Brilliant**—Carmine rose. **Lady Satin**—Rose.  
**Crimson Glow**—Crimson. **Mandarin**—Yellow.  
**Duke of York**—Rich scarlet. **Rosamond**—Shell pink.  
**Duchess of Albany**—White. **Rose**.  
**Gloriosa**—Blood red. **Scarlet**—Edged white.

**Mixed**

Each of the above, pkt. 5c.

**GODETIA—Schamini Type**

**Tall Double, Azalea Flowered**

Are quite different from other sorts, inasmuch as they throw up flower spikes much like a gladiolus only more graceful, which are closely set by double flowers in bright and attractive colors. An excellent cut flower. Glorify your garden with Godetia.

**Carminea**—Pkt. 5c. **Rosy Morn**—Deep rose. Pkt. 5c.

**Crimson**—Pkt. 5c. **Pink**—Pkt. 5c.

**Mauve**—Pkt. 5c. **White**—Pkt. 5c.

**Rose**—Pkt. 5c. **Finest Mixed of above**—Pkt. 5c.



## GOURDS (Ornamental)

These are desirable in many places where an immense amount of vine is wanted quickly.

Apple Shape—Pkt. 5c. Dipper Shape—Pkt. 5c.

Orange Shape—Pkt. 5c.

Bottle—The original Thermos bottle. Used by the pilgrims of the Orient. Pkt. 5c

Calabash or Pipe Gourd—Odd-shaped fruit which is used to an advantage in making pipes. Pkt. 10c

Dishcloth or Towel—Many women prefer a dishcloth made of this Gourd to anything else, as it is always sweet and clean as long as any part of it is left.

Pkt. 5c

Hercules Club—Fruit grows 3 to 4 ft. long. Pkt. 5c

Nest Egg—Fruit looks exactly like a hen's egg and may be used as nest eggs. Pkt. 5c

Pear Shaped—Striped yellow and green. Pkt. 5c

Sugar Trough—Thick shells, very durable. Pkt. 5c

Large Varieties Mixed—Pkt. 5c; oz. 25c.

Small Varieties Mixed—Pkt. 5c; oz. 25c.

All Varieties Mixed—Pkt. 5c; oz. 25c.

## GREVILLEA

Robusta (Silk Oak)—1 to 5 ft. It is easy to manage, grows rapidly from seed, and is pretty in all stages of growth; with its long, drooping, silky foliage it reminds one of a palm or fern. Pkt. 10c

## GYPSOPHILA

Graceful plants of light fairy-like growth. Much in demand for cutting and combining with other flowers for bouquets and vases.

Elegans Grandiflora Alba (Angel's Breath)—This is an improved, large-flowering, pure white, of free, easy growth. Several sowings should be made during the season to keep up a supply. Pkt. 5c; ½ oz. 20c; oz. 30c

Elegans Crimson—Pkt. 5c.

Elegans Carminea—Pkt. 5c.

Deep Pink—Pkt. 5c.

Elegans Rosea—Soft pink. Pkt. 5c.

Muralis—6 in. A lovely little rock or edging plant with rose-pink flowers. Pkt. 10c

Those marked \* are Perennials

### \*GYPSOPHILA (Perennial)

Paniculata (Baby's Breath)—2-3 ft. July-August. Small flowers on branched stems, so thick as to give the plant a white lace-like effect. Per pkt. 10c

\*Paniculata Flore Pleno (Perennial)—A great improvement on the single-flowered type and more lasting, the flowers forming miniature balls of white petals. Not quite fixed, but about 25 per cent come true. The plant is difficult to propagate by division, and seedlings prove much more vigorous. Pkt. 10c

\*Repens—Dwarf white, fine for rockery. Pkt. 15c

Repens Rosea—Pkt. 15c.

## \*HELENIUM (Sneezewort)

Late-flowering hardy perennials; broad heads of elegant, golden-yellow flowers; fine for cutting. 5 to 6 ft. Autumnale superbum—Pkt. 10c.

Riverton Beauty—Rich lemon-yellow, with a large purplish-black cone. Per pkt. 10c

## \*HELIANTHEMUM

Mutabile (Rock Rose)—Low-growing evergreen plants forming large clumps, completely covered with bloom during July and August. Pale rose changing to lilac then to white. 8-12 in. Excellent for rockeries. Mixed colors. Pkt. 10c

## HELIANTHUS (Sunflower)

Hardy annuals, of stately growth, remarkable for the size and brilliancy of their flowers. Very useful as cut flowers. Effective in forming background of large beds or borders and for distant effect.

Chrysanthemum Flowered—Perfectly double; the color is the brightest golden yellow. The flowers are so perfect in form that they resemble very much double Chrysanthemum-Flowered Asters, with long stems; grows seven feet high, and bears profusely all summer long. Pkt. 5c; Single, all colors. Pkt. 5c

Dwarf Red—Pkt. 5c.

Nanus Flore Pleno—2½ feet. Double dwarf, beautiful for massing in beds. Pkt. 5c

Russian Mammoth—Single, of gigantic dimensions. For larger amounts see Farm Seed pages. 1 oz. 5c

Miniature-Flowered Sunflowers—The varieties of Helianthus cucumerifolius form spreading bushes with small graceful foliage and bear a multitude of small elegantly formed flowers, which are borne for a long time in succession, and are invaluable as cut flowers. Pkt. 10c; oz. 40c

## \*HELIANTHUS (Hardy Sunflower)

Angustifolius (Autumn Glory)—5 to 7 ft. The great massing branches are a sheet of solid bloom of the clearest and richest golden yellow. Flowers are like great daisies flecked with gold. Blooms very late in season after frost has killed everything else. Per pkt. 15c

## HELIOTROPE

Flowering Heliotrope Plants (from seed grown in spring)—It is but little known that seed sown in February and March will produce large flowering plants the first summer. Our mixture contains seeds from many named sorts, and will produce fine plants with proper treatment.

Mammoth Flowering. Pkt. 10c.

## HELICHRYSUM (Everlasting Flower)

A free-flowering, hardy annual, growing four to five feet high and bearing beautiful straw-like flowers in a great variety of shades and colors. The stems are long and the blossoms large. It is the best and most satisfactory of the everlasting flowers, and makes a very handsome dried bouquet.

Crimson. Pkt. 5c.

Rose Queen. Pkt. 5c.

Fireball. Pkt. 5c.

Scarlet. Pkt. 5c.

Silverball. Pkt. 5c.

Salmon Queen. Pkt. 5c.

Goldenball. Pkt. 5c.

Violet Queen. Pkt. 5c.

Rose Carmine. Pkt. 5c.

Finest Mixed. Pkt. 5c.

## \*HEUCHERA (Coralbells)

Beautiful plants for front row of borders, with slender, fairy-like spikes of richly colored flowers; most striking in the garden and light and graceful for cutting.

Sanguinea Hybrida Grandiflora—New large flowered hybrids, very fine. Per pkt. 25c

## \*HIBISCUS (Rose Mallow)

Noble shrub-like plants, with handsome green foliage, bearing throughout summer large bright flowers, from 3 to 5 inches in diameter. Very hardy. Suitable for garden and indoor use when cut.

Golden Bowl—Deep cream, with a velvety maroon center. Pkt. 10c

Mixed Mallow Marvels—Grand assortment. Pkt. 10c

## \*HIERACIUM

Villosum (Shaggy Hawkweed)—12 in. July. Plant is covered with a white silkiness effective for its large golden yellow flowers and silvery foliage, suitable for rock work. Per pkt. 15c

## \*HOLLYHOCK

A hardy perennial of upright, stately growth, five to eight feet high. The very double varieties are the most desirable, but the newer, semi-double, fringed types are also very popular. Hollyhocks make a fine row in the garden, or a fine background next to a building or high wall or fence.

Allegheny—Mixed. The semi-double, fringed variety. An artistic and pretty sort. Pkt. 10c

Double Varieties—White, Maroon, Rose, Scarlet, Salmon, Yellow, Crimson, Blood-red.

Each color, pkt. 10c

Newport Pink—The finest pure pink, exquisite shade. Pkt. 10c

Double Emperor Improved—4 to 5 ft. Flowers measure 5 to 6 in. across with an entirely new formation. The blooms are composed of a very broad collar of frilled and fringed petals in a kaleidoscopic variety of color hitherto unknown in the genus. Very vigorous branching type. Pkt. 25c

Double Varieties, Mixed—Pkt. 5c.

## HONESTY (See Lunaria)

## HYACINTH, Bean (See Dolichos)

## IBERIS (See Candytuft)

## ICE PLANT

Mesembryanthemum Crystallinum—6 in. Foliage very ornamental, being covered with ice-like globules and prized for garnishing; a valuable plant for dry, sunny situations on banks, rockwork, old walls and ruins, etc., also for sunny borders. Pkt. 5c

## \*INCARVILLEA

Grandiflora—Likes a sunny situation, spikes of elegant Gloxiniaeflora-like flowers. Finely cut foliage. Pkt. 10c

## \*INULA

Ensifolia—9 in. July-Sept. Vigorous plant and a continuous bloomer with large yellow aster-like flowers and rather coarse foliage. Per pkt. 25c



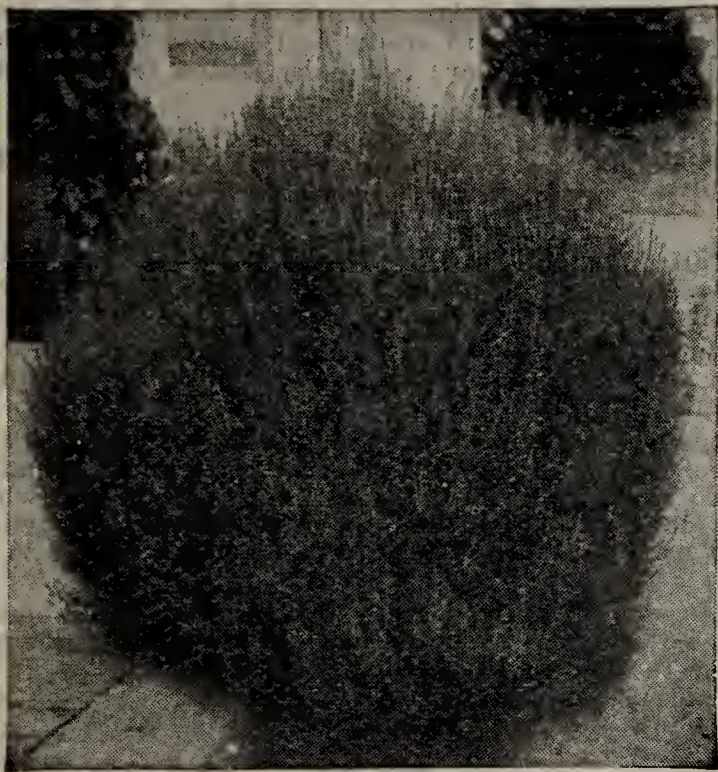
## IPOMOEA

Beautiful rapid annual climbers. Foliage very dense and in some kinds of remarkable shape. The flowers in their wide range of delicate coloring are poised on slender stems.

**Grandiflora Alba**—(Moon Flower)—Large white blossoms, five to six inches across, which expand at night. Pkt. 10c

**Sky Blue**—(Moon Flower)—Of strong, vigorous growth, the plants quickly attain a height of twelve to fifteen feet. Pkt. 10c. Fine Mixture—Pkt. 5c

**JOB'S TEARS**—See "COIX"



## KOCHIA

**Kochia** (Standing Cypress, or Belvedere)—An easily grown annual, which, sown thinly in spring, soon forms a cypress-like hedge of the most lively green and of perfect symmetry; by mid-summer it attains a height of about three feet, and on the approach of autumn the whole plant becomes a deep red.

Pkt. 5c; ¼ oz. 25c

## \*KUDZU VINE (Pueraria Thunbergiana)

A new climber of great merit. This vine is one of the most rapid climbers there is, growing to 20 feet quickly. Called also Jack-and-the-Bean-Stalk. Hardy perennial.

Pkt. 10c; oz. 50c

## LANTANA

**Hybrida, Mixed**—2 ft. Shrubby plant with Verbena-like flowers in shades of white, red and yellow. May be grown in pots or set out in summer. They have an agreeable aromatic perfume. Pkt. 10c

## LARKSPURS

This is one of the best known garden flowers. A vast improvement has been effected, by careful selection and attentive cultivation, in size and color of the blossoms and the general habit of the plant. Hardy annuals. (For Perennial Larkspurs, see Delphinium.)

**Los Angeles**—Brilliant rose on salmon ground. This variety has the same habit as LaFrance and is highly recommended for florists' use. Pkt. 15c.

### LA FRANCE

This is a Larkspur novelty of real merit. The La France is the most striking color of all and without question is the most outstanding novelty for 1931. The flowers are of a pleasing salmon-pink. The large well-formed double flowers are well placed on the long stems to set off its attractions. La France Larkspur presents a beautiful appearance, which has won nothing but praise from all who have had the pleasure of seeing it in bloom. We believe that this will be the most popular annual. Per pkt. 10c

### TALL DOUBLE STOCK FLOWERED LARKSPUR

The following are the best varieties:

|                            |                       |
|----------------------------|-----------------------|
| Bright Rose—Pkt. 5c.       | Flesh—Pkt. 5c.        |
| Dark Blue—Pkt. 5c.         | Lilac—Pkt. 5c.        |
| Delicate Lavender—Pkt. 5c. | Scarlet Rose—Pkt. 5c. |
| Rose—Pkt. 5c.              | White—Pkt. 5c.        |

## LARKSPURS

**Special Mixture**—Annual Larkspurs. A charming mixture containing all the bright and delicate shades, makes wonderful cut flower material and should be planted generously. Pkt. 5c.

## \*LATHYRUS LATIFOLIUS

(Hardy Pea)

Very decorative climbing vines of the Pea family, for growing on fences, trellis, etc., as floral screens and for cutting. Blooms all summer.

**Pink Beauty**—Pale pink variety. Pkt. 10c.

**Rubra**—Bright rosy crimson. Pkt. 10c.

**White Pearl**—Large-flowering white. Pkt. 10c.

**Mixed**—The above colors. Pkt. 10c.

## LAVATERA

The Lavateras or Annual Mallows are showy and effective plants covered during the entire summer with bloom. For large borders and cutting they are very desirable.

**Splendens Alba**—Very large, silky, pure white flowers. Pkt. 10c.

**Splendens Rosea**—Very large, bright rose flowers. Pkt. 10c

**Splendens Mixed**—Pkt. 5c.

## LEPTOSIPHON

**French Hybrids**—Free flowering hardy annuals useful for edging and rockwork. Plants are thickly studded with charming bright flowers of various colors. Pkt. 10c

## LEPTOSYNE

**Stillmani**—1½ ft. One of the quickest annuals, blooming within five weeks from date of sowing, and the golden-yellow flowers continue in perfection for a long period. Excellent for cutting. Pkt. 10c

**Maritima**—3 ft. Large lemon-yellow Marguerite-like flowers on long stalks. Pkt. 10c

## LILY SEED MIXED

Lilies can be grown from seeds, with very little care and some of them will bloom the second season. To those that are not particular as to varieties, we have made a mixture of all the varieties we list and a few more of which we had only a small quantity of seed. These are yours as long as they last at 25c per package.

## \*LINARIA (Toad Flax)

Showy free-flowering plants of a trailing habit. Good for borders, window boxes or rockeries.

**Cymbalaria** (Kenilworth Ivy)—3 in. Dainty lilac and orange; flowers throughout summer; trailing habit. Per pkt. 10c

**Dalmatica Macedonica**—The dainty flowers resemble those of snapdragon, bright yellow with orange tip. 25c per pkt.

## LINUM

**Grandiflorum Rubrum** (Crimson Flax)—2 ft. One of the most brilliantly colored of summer annuals, flowers glowing crimson-rose. Very beautiful in beds and borders, and may be had in bloom from May to October by successive sowings. Pkt. 5c

**\*Perenne Blue**—May-Aug. 2 ft. Has dainty sky-blue flowers on graceful arching stems. Blooms short lived but are produced continuously in such profusion it creates the effect of blue sheen over the plant. Per pkt. 10c

## LOBELIA

A hardy annual and hardy perennial. The annual grows four to six inches high, is of compact growth, and literally covered with small bright flowers. By cutting back the plants during the summer and giving plenty of water, they may be kept in flower all summer. Used for ribbon work and borders or hanging baskets.

**Crystal Palace Compacta**—Rich, deep blue; dark foliage; the finest dark blue for bedding. Pkt. 10c

The following variety is especially effective in hanging baskets or window boxes, where a long drooping effect is desired.

**Speciosa**—True dark blue, dark foliage. Pkt. 10c.

**Sapphire**—Large, deep blue flowers, with a pure white eye which occupies one-third of the corolla. Pkt. 15c

**Love in the Mist**—See Nigella.

## LUNARIA

**Annua** (Biennis) (Honesty or St. Peter's Penny)—Flowers purple, followed by silvery seed pods, prized for winter decoration. Annual but readily self-sows. Per pkt. 10c

## LUPINUS

**Tall Annual Varieties Mixed**—2 ft. Ornamental, free flowering, easily grown, with long graceful spikes of rich and variously colored pea-shaped flowers; valuable for mixed flower borders and beds. Pkt. 5c; oz. 20c

**Dwarf Annual Varieties Mixed**, 1 ft. Pkt. 5c; 1 oz. 20c



## \*LUPIN (Perennial)

Most beautiful hardy border plants producing tufts of soft green foliage, from which arise in continuous succession the stately spikes of bloom.

**Polyphyllus** (Old-fashioned Garden Lupin)—Blue. 3 ft. Stately spikes of blue, flowers all summer. Pkt. 10c

**Albus**—Large pure white spikes. Pkt. 10c.

**Roseus**—4 ft. Light and dark rose flowers on long stem; fine for cutting. Pkt. 10c

**Mixed**—Splendid value. Pkt. 10c.

## \*LYCHNIS

**Alpina**—Close tufts, olive green foliage, clusters of rose colored flowers. Pkt. 20c

## MALOPE (Mallow-Wort)

Showy plants for large mixed flower and shrubby borders. The flowers are large and handsome.

**Grandiflora Mixed**—Pkt. 10c.

**MALLOW** (See Lavatera)

## MARIGOLD

A hardy annual, shrubby plant, in dwarf and tall varieties, growing from six inches to three feet high.

## AFRICAN MARIGOLDS

**El Dorado**—Large double imbricated flowers in all shades of yellow; 3 ft. Pkt. 5c

**Lemon Ball**—A counterpart of Orange Ball, except in color, which is a soft lemon-yellow. Pkt. 5c

**Orange Ball**—Large, perfect, double-quilled flowers, of a rich deep golden-orange color; the finest of all and very showy. Pkt. 5c

**Finest Mixed**—Pkt. 5c.

## DWARF DOUBLE AFRICAN MARIGOLDS

Few annuals are as effective as the French Marigolds or flower for so long a period; they all form dense bushes not over 12 inches high, and are unequalled for borders or beds.

**Dwarf Orange Ball**—A splendid pure golden yellow, flowers of good size and makes a very effective golden line or bed. Pkt. 5c

**Dwarf Lemon Ball**—Similar to the above except in color, which is a light lemon-yellow. Pkt. 5c

**Dwarf Finest Mixed**—Pkt. 5c.

## FRENCH TALL DOUBLE

**Finest Mixed**—Pkt. 5c.

## DWARF FRENCH VARIETIES DOUBLE

**Dwarf Dark Brown**—Beautiful reddish brown. Pkt. 5c

**Dwarf Legion of Honor**—Brown, spotted yellow. Pkt. 5c

**Robert Beist**—Dark Brown and Orange. Pkt. 5c.

**Finest Mixed**—Pkt. 5c.

## DWARF SINGLE FRENCH MARIGOLD

**Fire Cross**—Red and yellow. Pkt. 5c.

**Legion of Honor (Little Brownie)**—A single-flowering Marigold, forming compact bushes 9 inches high. Begins flowering early, commencing in June, continuing until frost. The flowers are golden yellow, marked with a large spot of velvety crimson at the base of each petal. Pkt. 5c

**Finest Mixed**—Pkt. 5c.

**Mexican Marigold**—See Tagetes Signata Pumila.

**MARVEL OF PERU** (See Four o'Clock)

## MATTHIOLA

**Bicornis** (Evening-scented Stock)—15 in. The flowers in the morning, evening and after a shower emit a delicious perfume perceptible at a considerable distance. Pkt. 10c

## MATRICARIA

**Capensis Fl. Pl. (Feverfew)**—3 ft. Neat, small, double white quilled flowers, well adapted for bedding and cutting. They are perennials in mild climate. Pkt. 10c

**Eximea, Golden Ball**—1 ft. Of compact habit, suitable for edging, with very striking double yellow flowers. Pkt. 10c

## MECONOPSIS

**Baileyii**—The new and beautiful blue Thibetan poppy. It is a graceful plant, with downy pale green leaves, the brilliant Cambridge-blue pendant flowers, 4 inches across, being carried singly on stems about 2 feet high. Pkt. 50c

## MINA

**Lobata**—12 ft. A climber of luxurious growth, with tube-shaped flowers; produced in greatest profusion. In color they are particularly attractive, the bud being first bright red, but changing through orange-yellow to creamy white when fully expanded. Pkt. 10c.

## MIGNONETTE (Reseda)

A well-known fragrant favorite, and no garden is complete without a bed of Mignonette; sowings made in April and again in July will keep up a succession from early summer until frost; can also be grown in pots for winter and early spring flowering.

**Sweet-Scented (Reseda Odorata)**—The old-fashioned variety with small spikes, but the most sweetly scented of all. Pkt. 5c; oz. 15c

**Machet**—Adapted for pot culture; dwarf pyramidal growth, bearing numerous flower stalks; highly colored and very fragrant. Pkt. 10c; ¼ oz. 25c; oz. 75c

**Red Goliath**—Of strong, yet compact habit, with rich green foliage; the giant trusses of flowers being borne on erect, strong, stiff stalks and surpassing all others in brilliancy of color; especially suited for house culture. Pkt. 10c

## MOON FLOWER—See Ipomoea

## MORNING GLORY

**Tall Morning Glories Mixed**—A great variety of colors of the old-fashioned, popular, rapid-growing climber. Oz. 15c; pkt. 5c.

**Dwarf Morning Glories Mixed**—Hardy annual, one foot in height. Colors range from pure white to deep purple. Oz. 20c; pkt. 5c.

**Imperialis (Japanese Morning Glory), Fine Mixed**—The Japanese Morning Glory requires a warm situation to do well. The south side of a wall or building where the plants are protected from the north and west winds will mostly be found beneficial for these vines. ¼ lb. 55c; 1 oz. 25c; ½ oz. 15c; pkt. 10c.

**Setosa (Brazilian Morning Glory)**—A summer climber, making a dense shade. Flowers rose colored; three to four inches in diameter. Pkt. 5c.

## NASTURTIIUMS, Dwarf



**Dwarf Nasturtiums Mixed**—This splendid mixture contains all the named varieties and every color. No finer mixture can be made. They will produce enormous flowers on long stems, in a wonderful variety of colors. Pkt. 5c; oz. 10c; 2 oz. 15c; ¼ lb. 30c; lb. \$1.

## DWARF "IVY-LEAVED"

**All Colors in Mixture**—This mixture, like the Tall Ivy Leaved Mixture, contains a most remarkable range of colors. There are colors and color combinations that are not found in any other strain of Nasturtiums. It is indeed a glorious mixture! Every one who grows Nasturtiums should plant at least a packet of the seed, in order to become acquainted with this grand new type. Pkt. 10c; oz. 20c; ¼ lb. 60c; lb. \$2.00, postpaid.



## NEW SWEET-SCENTED Dwarf Double NASTURTIUM "GOLDEN GLEAM"

The plant forms a vigorous, large bush which throws out short runners, averaging eighteen inches. The flowers commence to come as soon as the plant nears complete development, and at the time it is in full bloom the entire plant, including the runners, is a blaze of color. The large, golden-yellow flowers average two and one-half to three inches across. They are borne on erect, stiff stems six inches in length. Consequently the flowers stand well above the foliage, an arrangement which adds immeasurably to the showy appearance of the plant.

**Per Packet 25c**

## DWARF NASTURTIIUMS

**Aurora**—Bright chrome-yellow flowers attractively veined with purplish crimson. A profuse bloomer with strong, sturdy bushes carrying a magnificent display of large, well-rounded blooms. The foliage is rich green.

Pkt. 5c; oz. 15c; 4 oz. 50c

**Dwarf Beauty**—The large, nearly-round flowers are a glowing shade of orange with scarlet markings. A most appealing variety which will make a fine show in the garden. Pkt. 5c; oz. 15c; ¼ lb. 50c.

**Bronze Colored**—Of a peculiar burnished bronze color. Per pkt. 5c; oz. 15c; ¼ lb. 50c.

**Chameleon Dwarf**—Flowers of most diversified coloring and many brilliant markings on a single plant.

Per pkt. 5c; oz. 15c; ¼ lb. 50c

**Cloth of Gold**—The bright golden yellow leaves form compact plants above which the brilliant scarlet flowers stand out with a sharp but pleasing contrast.

Pkt. 5c; oz. 15c; ¼ lb. 50c

**Empress of India**—This variety shows a fine contrast between the rich salmon-scarlet flowers and the deep purplish green leaves. One of the finest for borders or beds. Pkt. 5c; oz. 15c; ¼ lb. 50c.

**Golden King**—A very fine rich glowing orange-yellow which blends well with the dark purplish green foliage.

Pkt. 5c; oz. 15c; ¼ lb. 50c

**Golden Queen**—Of finely rounded form, only six to eight inches high and with small light golden-green leaves. The flowers are self-colored in a rich tint of orange-yellow, intensely glowing.

Pkt. 5c; oz. 15c; ¼ lb. 50c

**King of Tom Thumbs**—Glowing pure scarlet flowers of large size and perfectly round shape. An excellent free bloomer. Pkt. 5c; oz. 15c; ¼ lb. 50c.

**King Theodore**—A fine variety with dark green foliage and rich velvety crimson flowers. Fine well-rounded bushes. Pkt. 5c; oz. 15c; ¼ lb. 50c.

**Spotted King or Lady Bird**—Golden yellow, barred crimson. Pkt. 5c; oz. 15c; ¼ lb. 50c.

**Vesuvius**—The flowers are large; of fine form. The petals are salmon-rose, heavily veined with salmon-orange. Pkt. 5c; oz. 15c; ¼ lb. 50c.

### NEMESIA—1 foot

Free-blooming dwarf bushes for pot culture and open borders. Sow in spring under glass, and transplant; or sow out of doors in May, in patches where they are intended to flower.

**Large Flowered Mixed**—1 ft. It is the finest strain of the most popular flower, both for size and massive build of the individual flowers, also for the richness and variety of colors. Pkt. 10c

### NEMOPHILA (Baby Eyes)—6 inches

Hardest of annuals, and of the easiest culture. Makes a very effective front row to a bed or border, and should be sown out-of-doors in spring, in patches, where they are to flower.

**Insignis Mixed**, all colors—Cup-shaped flowers in many bright colors, the blue shades being particularly attractive. Pkt. 10c

## NASTURTIIUMS, TALL OR TRAILING

These are all of strong, vigorous growth, throwing out running shoots that can be trained upon strings or wires, or can be readily made to climb ordinary paling fences or wire netting. They are very showy, also, planted at the top of a steep slope and allowed to run down the bank.

**Brilliant**—Bright scarlet flowers held above the dark green leaves. A very showy flower of large size and heavy substance. Pkt. 5c; oz. 15c; ¼ lb. 50c.

**Butterfly**—The color is a light lemon-yellow, marked on the three broad lower petals with a blotch of rich terra cotta red. The two upper petals are marked in shades of bright red. Pkt. 5c; oz. 15c; ¼ lb. 50c.

**Cameleon (Tall)**—Not only are the flowers of various colors produced on the same plant, but these flowers are variously splashed and bordered. On the same plant are found self-colored flowers, some curiously stained, while others are banded with light or dark shades. Pkt. 5c; oz. 15c; ¼ lb. 35c; per lb. \$1.20.

**Cloth of Gold**—This fine variety is outstanding because of the contrast of the velvety maroon flowers against the golden yellow foliage.

Pkt. 5c; oz. 15c; ¼ lb. 50c

**Firefly**—Bright yellow, spotted cardinal red, calyx and spur ruby. Pkt. 5c; oz. 15c; ¼ lb. 50c.

**King of the Blacks**—Dark mahogany-red blooms and deep bluish green foliage. A strong grower and very free bloomer. Pkt. 5c; oz. 15c; ¼ lb. 50c.

**Moonlight**—Exquisite light straw-yellow flowers of unusual size borne in great profusion.

Pkt. 5c; oz. 15c; ¼ lb. 50c

**Sunlight**—The flowers, of largest size, are most beautifully colored—clear, rich, golden yellow. Individual flowers measure nearly three inches across, and are produced most profusely.

Pkt. 5c; oz. 15c; ¼ lb. 50c

**Scarlet**—The flowers are of magnificent size and of compact, rounded form. The color of the flowers is a magnificent bright scarlet. Pkt. 5c; oz. 15c; ¼ lb. 50c

**Twilight**—The flowers are extra large and most pleasing in color, having a faint salmon or buff tint, heavily suffused with rosy salmon.

Pkt. 5c; oz. 15c; ¼ lb. 50c

## BUTZER'S ROSE CITY MIXTURE OF TALL NASTURTIIUMS

This mixture is absolutely unequalled; nothing better to be had anywhere. In it will be found all the choicest colors of tall Nasturtiums, of all the new shades, as well as the standard sorts. Pkt. 5c; oz. 10c; 2 oz. 15c; ¼ lb. 30c; lb. \$1.00.

### TALL IVY-LEAVED NASTURTIIUMS

The plants are of running growth, with star-like pointed leaves of rich green, veined with white, so that the young shoots, where the leaves are set closely together have a marked resemblance to the foliage of the hardy English Ivy. The flowers are of medium size and of most distinct form. The petals are quite narrow, and standing well apart from each other, present a striking star-like appearance. Many colors mixed.

Pkt. 10c; oz. 20c; ¼ lb. 60c

### NEPETA

These little plants give clouds of bright blue flowers all summer. Makes a fine permanent edging and an excellent rock plant.

**Mussini**—May-September. Light blue. 1 ft. Pkt. 10c

### NICOTIANA (Sweet Scented Tobacco Plant) 2 ft.

One of the easiest annuals to raise and one of the most effective. The blossoms in shape are not unlike a Petunia blossom, but with a longer tube. The flowers open toward evening and emit a powerful perfume.

**Nicotiana Affinis Hybrids**—Mixed Colors. Pkt. 10c

**Affinis**—The popular free-flowering variety; fragrant star-shaped white flowers; annual, 3 feet high. Pkt. 5c

### NIEREMBERGIA

**Gracilis**—6 in. Flowers white, shading to and veined lavender, an exceedingly graceful plant for hanging baskets, rockwork, etc. Pkt. 10c

### NIGELLA

(Love in a Mist, or Devil in the Bush)—A compact free flowering plant, with finely cut foliage, curious-looking flowers and seed pods; of easy culture, growing in any garden soil; hardy annuals; blue and mixed; one foot.

**Mixed**—Pkt. 5c.

**Double Blue**—Pkt. 5c.

**Double White**—Pkt. 5c.

**Double Purple**—Pkt. 5c



# BUTZER'S ROSE CITY GIANT PANSIES



## Swiss Giant PANSIES in Mixture

A truly magnificent new strain of Giant Pansies, more beautiful than any others we have ever seen. It produces well rounded, compact plants which are literally covered with immense, heavy blooms of remarkable substance and texture. The range of color is simply remarkable and by far the majority of plants bear heavily ruffled and crinkled blooms, carried on long stiff stems.

The plants distinguish themselves by their robust growth, and form compact bushes of round shape, with strikingly large, healthy looking foliage.

The imposing five-spotted flowers which on long, vigorous stalks surmount the foliage in the most graceful manner, are of enormous size, perfectly round form, original structure and unusual substance. The individual petals are exceedingly broad and cover each other in such a manner as to make the flowers appear almost double. With most of the flowers the border of every petal being conspicuously undulated and curled, which grants the flowers a striking and very peculiar appearance, entirely new to this class of plants.

The beauty, brilliancy and richness of color being the most striking; also very rare and new tones of red and brown are met with in these flowers.

**Butzer's Rose City Giant Pansies**  
—Per pkt. 25c; 5 pkts. \$1; 1/16 oz. \$1; 1/4 oz. \$3; 1/2 oz. \$5; 1 oz. \$8.

|               |        |
|---------------|--------|
| Per pkt. .... | \$0.25 |
| 5 pkts. ....  | 1.00   |
| 1/4 oz. ....  | 2.50   |
| 1/2 oz. ....  | 4.00   |
| 1 oz. ....    | 6.00   |

## BUTZER'S OREGON GIANT PANSY MIXTURE

A mixture of pansies unrivaled for diversity of coloring and markings.

This mixture is made up from the finest named varieties grown by a pansy specialist.

Per pkt. 10c; 1/4 oz. 75c; 1/2 oz. \$1.25; oz. \$2.00

**Mastodon**—Huge in size, marvelous in form and including many new and unique shades, with many variations in each. Pkt. 15c.

**Masterpiece (Frilled Pansy)**—A remarkable type, each petal being conspicuously curled and waved. The range of color is very extensive, the rich, dark, velvety shades predominating. Pkt. 15c.

## PANSIES

Pansies are too well known to require any description, as they are favorites with all. For best results you must start with a good strain. The finest Pansies are, as a rule, shy seeders, which accounts for the difference in the price of the various mixtures offered.

Sow Pansy seed in August or September, in fresh, moist soil, cover lightly and press seeds in with a board. Keep the bed moist by watering, and if the weather is hot and dry by mulching with straw or by shading with cloth. The seeds will germinate in about two weeks, when the straw or cloth should be removed. In from four to six weeks, transplant to a slightly raised bed, setting the plants about 3 inches apart each way. Protect during winter with straw or leaves, and transplant to desired location early in the spring. Seed may be sown in the open ground in the spring as soon as soil can be fitted.

### PANSIES IN SEPARATE COLORS

- Adonis**—Light blue, baby blue and lavender shades. Pkt. 10c.
- Azure Blue**—Sky Blue. Pkt. 10c.
- Beaconsfield**—Lavender, hleiotrope and purple. Pkt. 10c.

- Black**—Nearly all jet black. Pkt. 10c.
- Bronze**—Very large. All the different shades from burnished brass to gold. Pkt. 10c.
- Grand Duke Michel**—The largest all-white pansy. Pkt. 10c.
- Improved Beaconsfield**—New. A fine bluish purple with a distinct lavender tinge on the upper part of the upper petals. Pkt. 15c.
- Improved Isabelle**—A superb ruffled bronze and yellow. Long stems. Very large. Pkt. 15c.
- Improved Volcano**—A rich, velvety Burgundy red of immense size. Pkt. 15c.
- Madame Steele**—Elk's purple; immense blooms; a perfect self. Pkt. 10c.
- Madame Perrett**—With edges of petals frilled—bordered white; colors, wine, pink and red. Pkt. 10c.
- Mlle. Irene**—A shade entirely new to pansies. A henna red. Pkt. 15c.
- Panama Pacific**—A large yellow; some with dark centers, some without. Pkt. 10c.
- Parisian Yellow**—A pure yellow. Pkt. 10c.
- Peacock**—Blue with white edge. Pkt. 15c.
- Prince Henry**—A splendid dark blue. Pkt. 10c.
- Steele's Golden Gate**—A monster Golden Yellow. Pkt. 15c.
- Striata**—Beautifully striped in true sunburst fashion. Pkt. 15c.
- Snow Queen**—Pure white. Pkt. 10c.
- Swiss Alpenglow**—The color is of a rich velvety garnet with three dark blotches. A most striking and attractive color. Pkt. 25c.
- Swiss Blue (Ullswater) (Thuner Sea)**—The coloring is unusual and attractive. A solid blue flower with a blue black center. Pkt. 25c.
- Swiss Yellow**—Of the true Swiss type. Rich yellow with blotches on the three lower petals. Pkt. 25c.
- Victoria**—Nearly scarlet. Pkt. 10c.
- White (dark center)**—The largest pansies we have ever seen. Pkt. 10c.



**\*OENOTHERA**

These open their flowers in the evening and one can enjoy a thrill in his garden if he will sit for 15 minutes at twilight and watch the Evening Primroses (*Oenothera*) drop their calyx and unfold their petals. We have had a plant in our garden. The buds are closed when we start the hose going, but before we get through, presto! a wealth of large golden blooms greets us and bids us "good night."

**Lamarckiana Evening Primrose, Mixed**— $\frac{1}{2}$  to 2 ft. Neat plants, with large, saucer-shaped flowers, white or golden-yellow; open at dusk; emit a delightful perfume. Pkt. 10c

**Missouriensis (Macrocarpa)**—1 ft. Long trailing stems with large yellow flowers. Pkt. 10c

**\*PENTSTEMON (Beard Tongue)**

They are very showy, growing from 2 feet to 4 feet high, are rather bushy and have very long, slender spikes which bear many trumpet-shaped flowers with hairy throats from whence the name "Beard Tongue" comes.

"Sensation."—As a bedding plant this takes rank with the *Petunia*, *Phlox*, etc. It grows about 30 inches high, every branch being a spike of large, *Gloxinia*-like flowers in a very wide range of bright colors, including rose, red, carmine, cherry, pink, lilac, purple, etc. Pkt. 15c

**Grandiflora Mixed**—A splendid mixture of free flowering sorts in a good range of colors. Pkt. 10c

**PETUNIA**

The *Petunia* is without a peer among annuals for effective summer bedding or indoor culture. They are of easy culture, early to bloom and continue throughout the summer until the first killing frost. No other flower produces a great diversity of color, retaining their freshness for so long a period. The doubles may be perpetuated, if desired, by taking cuttings late in the summer, for winter house blooming plants. Provide good soil and a sunny location.

**GIANTS OF CALIFORNIA, MIXED**

The flowers are very large and the colors embrace every conceivable shade of crimson, white, violet, lavender, etc. Pkt. 15c

**ROSY MORN**

Of compact growth, literally covered with flowers one and one-half inches in diameter. The throat is silvery white, while the edge is heavily flushed with soft rose-pink. Pkt. 10c

**FINE MIXED SINGLE VARIETIES**

**Fine Mixed**—Excellent for bedding; many colors;  $\frac{1}{4}$  oz. 50c; pkt. 10c.

**Hybrida Single Red.** Pkt. 10c.

**Hybrida Single White.** Pkt. 10c.

**DOUBLE PETUNIAS**

Our Double *Petunias* are selected with the greatest of care and contain the largest percentage of double flowers possible.

**Giant Double Fringed Mixed.** Per pkt. 25c.

**BALCONY PETUNIAS**

A splendid large and free flowering type either for window boxes, vases, hanging baskets, etc., the flowers average 3 inches across and make a very effective display over a long season.

**Balcony Blue**—Velvety Indigo blue.

**Balcony Rose**—Brilliant rose-pink; very effective.

**Balcony Red.**

**Balcony White**—The pure white form.

**Balcony Crimson**—Rich velvety crimson.

**Balcony Mixed**—All colors.

Choice of above, per pkt. 10c

**PHACELIA**

**Campanularia**—8 in. A very beautiful annual, producing a terminal raceme of intense gentian-blue flowers with conspicuous white anthers; very effective for edgings, etc., and a charming pot plant. One of the earliest annuals to bloom and flowers last in perfection a long time. Pkt. 15c

**PHLOX DRUMMONDI**

**Finest Mixed**—It is composed of the finest and most distinct varieties and will give a most varied assortment of brilliant colors. The trusses are large, well rounded, and closely formed, and the individual florets are of the largest size, firm substance, and most distinct and brilliant colorings.

Pkt. 10c;  $\frac{1}{4}$  oz. 50c; oz. \$1.50

Those Marked \* are Perennials

**PHLOX DRUMMONDI**

It will grow and thrive in any kind of soil if given a sunny position, but prefers a light, rich loam. Seed may be sown in the open ground any time after danger from frost is past, and in a few weeks they are a sheet of bloom, remaining so until frost. They may be used in a variety of ways, such as a carpet to beds of *Roses*, in boxes, vases, etc.; but it is when grown in masses, in beds or borders, that they show to best advantage.

**Crimson**—Pkt. 10c. **White**—Pkt. 10c.

**Flesh**—Pkt. 10c. **Rose**—Pkt. 10c.

**Lilac**—Pkt. 10c. **Scarlet**—Pkt. 10c.

**Primrose**—Pkt. 10c. **Violet with white eye**—Pkt. 10c.

**Star Phlox (Star of Quedlinburg)**—Of dwarf habit with very pretty star-shaped flowers. A novel and beautiful variety. Mixed colors. Pkt. 10c

**\*PHLOX (Hardy)**

(*Decussata*.) Perennial varieties mixed from a celebrated collection. Seed slow in germination and may not sprout in a year. Pkt. 10c

**PHYSALIS**

**Franchetti (Chinese Lantern Plant)**— $1\frac{1}{2}$  ft. Flowers yellow with dark center. Produces balloon-like husks, which turn bright red when ripe and resemble Chinese lanterns. Per pkt. 10c

**PHYSOSTEGIA (False Dragon Head)**

3-4 ft. Extremely beautiful with spikes of rosy pink, lilac or white flowers, which are tube-shaped similar to a tiny *antirrhinum* blossom. The buds and flowers grow on the stem as if growing four sides of a square; very attractive foliage surrounding the graceful spikes. Flowers in August.

**Virginica**—Dense bushes with spikes of delicate pink tubular flowers. Pkt. 10c

**PINKS OR DIANTHUS**

A magnificent genus, embracing some of the most popular flowers in cultivation, producing a great variety of brilliant colors and profusion of bloom. The varieties classed as annuals are really biennials, but are treated as annuals and may be sown out of doors when the danger from frost is past, and in a few weeks' time they are a mass of bloom, continuing so until after hard frost. As a rule, they survive the winter if given slight protection, flowering abundantly the following season. They grow about a foot high, and can be used in beds or borders of solid or mixed colors. The double flowering sorts are almost as fine as carnations for cutting. They are not particular as to soil, but should have a sunny location.

**Double China (D. Chinesia fl. pl.)**—Small, double flowers, borne in large clusters, of many colors, mostly with white edge. Pkt. 5c;  $\frac{1}{4}$  oz. 15c

**Heddewig's Double (D. Heddewigi fl. pl.)**—Japan Pinks. Very large double flowers of a wide range of color, running from white and light pink through shades of red to rich, velvety crimson and deep maroon almost black. Pkt. 5c;  $\frac{1}{4}$  oz. 25c

**Single Mixed**—Large single flowers, of rich and varied colorings. Pkt. 5c;  $\frac{1}{4}$  oz. 20c

**Double Japan Mixed (Chinensis laciniatus)**—The flowers are rich in hue; very double, deep fringed petals. Colors vary from white to rose, lilac, carmine, crimson scarlet, purple, brown and almost black, spotted and striped. Pkt. 10c

All varieties mixed, Pkt. 5c

**DIANTHUS**

**Sweet Wivelsfield**—This is an outstanding novelty of easy culture. It is the result of a cross of the *Dianthus Allwoodii* on the *Dianthus Barbatus*. The growth is not unlike the *Sweet William* but the flowers are larger and it has a much wider range of color. Besides retaining the brilliant coloring of the *Heddewigi* strain, which was one of its ancestors, it has many of the dainty markings of the same. Some of the flowers have a honey perfume. One of the most important features is, it may be treated as an annual or biennial as it blooms the first year from seed. Secured a Reward of Merit at Wisley. Pkt. 15c

**\*PINKS (Hardy)**

**Allwoodii**—A new race of hardy plants belonging to the *Dianthus* family. It makes an ideal pot plant. The flowers are about 75 per cent double and appear in all colors except yellow. The single flowers are quite as handsome as the double and have the advantage of making larger clusters. It is exceptionally hardy, commencing to flower in early spring and continuing through summer and fall. Pkt. (25 seeds) 50c



**\*PINKS (Hardy)**

These very desirable sweet-scented, low-growing, early-blooming and free-flowering Hardy Garden Pinks are unequaled for the borders of beds, drives, and the old-fashioned garden and should be planted in quantity in any good garden soil with full sun and an open situation.

**Caesius (Cliff Pink)**—Flowers delicate rose color, fragrant, 1 ft. or less. Seeds, per pkt. 25c

**Deltoides (Maiden Pink)**—6 in. Beautiful little plant with narrow leaves, with a profusion of small flowers during July and August. Per pkt. 25c

**\*HARDY PERENNIALS or CLOVE PINKS**

**Hardy Perennials, or Clove Pinks (Plumarius)**—Scotch or Grass Pink. When treated like an annual, if seed is sown in March, the plants will bloom the first year. The delicately fringed, variously colored flowers are fragrant, attractive and fine for bouquets. Pkt. 10c

**PLATYCODON (Chinese Bell Flower or Balloon Flower)**

Very handsome border plants of the Campanula family, the flowers in bud having the appearance of inflated balloons; they flower from June to September.

**Grandiflorum**—1-2 ft. Large, handsome, deep blue flowers. Per pkt. 10c

**POPPIES PERENNIAL VARIETIES**

Perennial poppies do best in rows one and one-half feet apart and one foot apart in the row. Seed may be sown outdoors either in spring or fall.

**Alpine Mixed**—6 in. A charming miniature poppy with brilliantly colored flowers including white, pink, apricot, yellow or orange-scarlet, etc. Useful for rock-work. Per pkt. 35c

**Orientele Hybrids Mixed**—A choice mixture of Orientele Poppies in shades of white, salmon, orange, scarlet and crimson. Per pkt. 10c

**Oriental Scarlet**—Pkt. 10c.

We do not furnish seed of the opium poppy.

**Nudicaule (Ice land Poppy)**—15 in. Mixed. Elegant free flowering plants bearing flowers in abundance all summer. Pkt. 10c

**Nudicaule Yellow, Orange, White**—Any color.

Mixed, pkt. 10c

**Coonara Pink**—A charming warm rose-pink, faintly suffused with salmon-pink combining the pink and salmon shadings in wonderful delicacy. The plants are more vigorous than is usual in Iceland Poppies, and the flowers are much more freely produced on long, slender stems throughout the season. They will keep well if cut in bud and the end of stems seared for a moment. If sown in the hot-bed in March or April, plants will bloom the same year. Pkt. 25c

**SINGLE ANNUAL POPPIES**

**Eldorado Salmon Shades**—The introducer made a selection of these most popular shades and these will especially appeal to those admiring pastel shades in flowers. Pkt. 10c

**Eldorado Pink Shades**—Pkt. 10c.

**Eldorado Mixed**—The flowers are large, single, semi-double and double, and contain magnificent shades of soft salmon, orange, orange-scarlet, pink, rose and white, without any dark markings whatever. The substance of the petals in some of the lighter shades is as delicate as China silk. Pkt. 10c

**Flanders Poppy**—Vivid scarlet-red. This flower has in the minds of men been associated for over two hundred years with the battlefields of Flanders. Was the first official flower of the American Legion. Pkt. 10c; ½ oz. 35c; 1 oz. 60c; ¼ lb. \$2.00

**Glaucum**—Large tulip-shaped flowers of dazzling scarlet; not unlike a Scarlet von Thol Tulip. Pkt. 10c

**DOUBLE ANNUAL POPPIES**

**American Flag**—Flowers very large, snow white, scarlet bordered. Pkt. 5c

**Double Cherry Red**—Pkt. 5c.

**Double Heliotrope**—Pkt. 5c.

**Mikado (The Striped Japanese Poppy)**—This beautiful Poppy is very distinct in character and color. The flowers are brilliant scarlet and white, with elegantly curved petals, like a Japanese Chrysanthemum. Pkt. 5c

**Salmon Pink**—Pkt. 5c.

**Cardinal**—A splendid dwarf variety of the carnation-flowered type, growing about two feet high and bearing large globular, fringed flowers of an intense cardinal red. Pkt. 5c

**Shell-pink**—Similar in every way to Cardinal and White Swan, except color, which is a soft sea-shell or chamois-pink. Very dainty. Pkt. 5c

**DOUBLE ANNUAL POPPIES**

**White Swan**—Immense double flowers, beautifully fringed and of purest white, of the same dwarf habit as Cardinal and Shell-pink. Pkt. 5c

**Double Carnation-Flowered, Mixed**—Of dazzling richness and in a great variety of colors. A remarkably pretty Poppy. Pkt. 5c; oz. 35c

**POPPIES—SHIRLEY**

**Shirley Poppies**—Silk or Ghost; have beautiful satiny flowers of various colors, all with white centers, which make the plants very attractive. Foliage is hairy and finely cut.

**American Legion**—Brilliant orange-scarlet. Pkt. 5c

**Blue Shirley**—Various shades of blue. Pkt. 10c.

**Rose Shirley**—Shades of rose and pink. Pkt. 10c.

**White Shirley**—Pure white. Pkt. 10c.

**Shirley Mixed**—Beautiful shades in delicate shades of rose, apricot, salmon-pink, and blush to growing crimson with a sprinkling of blues. Pkt. 10c; oz. 30c

**BUTZER'S SPECIAL POPPY MIXTURE**

**Double and Single**—Comprises not only all the Double and Single Poppies described, but also a number of other sorts specially purchased for this mixture, including some entirely new ones. Will make a grand display. Pkt. 10c; ½ oz. 20c; oz. 30c

**PORTULACA—Rose Moss**

Will grow and bloom abundantly all summer in a dry, hot location, where most other plants will soon die. The flowers are of the richest colors and make a beautiful border.

**Culture for Portulaca**—Sow in open ground when danger from frost is past. Cover the seeds to a depth of four times their size and press the surface firmly with a board. Water with fine spray. Thin out so that the plants will not become crowded. For early flowering sow in hot-bed or shallow boxes in the house in March; transferring to the open ground in May and June.

**Single—Mixed colors**. Pkt. 5c.

**Double—Mixed colors**. Pkt. 10c.

**Double and Single—Mixed**. Pkt. 5c.

**\*POTENTILLA (Cinquefoil)**

Potentillas greatly resemble the Strawberry plant, especially in the manner of growth and the foliage. This is a trailing plant which covers the ground rapidly and sends out roots as it goes along. The flowers are very showy, the colors are very bright.

**Willmottium Flowers**—Salmon pink, very freely produced. Pkt. 25c

**\*PRIMULA (Primrose)**

Exceedingly fine, free flowering plants for both bedding and greenhouse use, producing clusters of brilliant colored flowers indoors from November to May; hardy varieties continually in bloom.

**Primula Malacoides (Baby Primrose)**—This variety is extensively grown for winter blooming. The small lavender-pink flowers are borne in great profusion. Pkt. 15c; 2 pkts. for 25c

**Primula Malacoides Mixed**—Pkt. 15c, 2 for 25c.

**Veris Polyanthus Mixed**—An extra choice large flowered mixed strain. Pkt. 10c

**Veris Acaulis Mixed**—Pkt. 10c.

**Vulgaris (English Primrose)**—Canary yellow, fragrant. Pkt. 15c

**Japonica Mixed**—Several superimposed whorls of flowers on stems. 8-24 in. high. June. Per pkt. 15c

**PYRETHRUM**

**Aureum (Golden Feather)**—Dwarf plants with bright yellow foliage extensively used for edging; usually grown as an annual. Pkt. 5c; ¼ oz. 20c

**Hybridum Double and Single Mixed**—Large, daisy-like flowers ranging in colors from light pink to deep red; bloom in spring and fall; height 2 feet. Hardy perennial. Mixed. Pkt. 10c

**Pyrethrum—White**. Pkt. 10c.

**Pyrethrum—Red**. Pkt. 10c.

**RHODANTHE (Everlasting)**

A charming annual; succeeds in a light rich soil and a warm sheltered situation; valuable for pot culture; flowers everlasting.

**Maculata Alba**—White. Pkt. 10c.

**Maculata Rosea**—Rose. Pkt. 10c.

**Mixed**—Pkt. 10c.



## RICINUS

**Castor Oil Bean (Ricin)**—This has large leaves and a tropical appearance. All it requires to flourish is heat. It is a quick growing annual, 6 to 15 feet tall. Leaves are green or reddish. Commercial castor beans are of a different variety.

**Red Spire**—The shapely, bushy plants attain a height of about 6 feet, with pretty palmate leaves of a bronzy green with prominent red ribs and veins, and producing through the summer and autumn numerous spikes of flowers or seedpods 9 to 18 inches long, of a brilliant rosy crimson; altogether a most effective semi-tropical plant, valuable alike for its foliage and flowers and like other Ricinus, absolutely insect-proof. As single specimens or in beds on the lawn for filling up a corner, or making a hedge or line, this is one of the most ornamental plants ever introduced. Per pkt. 10c

**Sanguineus**—Tricolor. Has blood-red stalks and green leaves with red veins. Pkt. 10c; oz. 25c

**Zanzibarensis**—Mixed. A very large leaved variety, deep green and bronze, growing 10 to 15 feet high. Pkt. 10c; oz. 25c

Mixture of all varieties, pkt. 10c; oz. 20c.

## \*ROMNEYA

**Coulteri (California Tree Poppy)**—5 ft. Flowers all summer. Beautiful snowy white fragrant flowers. Pkt. 15c

## RUDBECKIA (Cone Flower)

**Bicolor Superba**—Fine free-flowering annual variety, growing about 2 feet high; forming a dense bush and producing in great abundance on long stems its bright flowers. The disc is brown, the florets golden-yellow, with large velvety-brown spots at the base; very effective and useful for cutting. Pkt. 10c

**Bicolor Superba**—Semi-double. Pkt. 10c.

**Purpurea (Giant Purple Cone-Flower)**—A most interesting hardy perennial, producing all summer large, showy reddish-purple flowers, about 4 inches across; 3 feet. Pkt. 15c

## SALPIGLOSSIS (Painted Tongue)

These showy, half-hardy annuals bear beautiful funnel-shaped flowers having dark veins in a ground which varies from white to crimson, yellow, orange, etc., and intermediate shades. They are easily grown, require a light, rich, sandy loam and will respond to liberal treatment. Bloom from late summer until frost. 2 ft.

Crimson.

Dark Red.

Yellow.

Scarlet and Gold.

White and Gold. Price, any of above, pkt. 5c. each

**Extra Fine Mixed**—Flowers of many beautiful shades, finely veined or penciled. A choice mixture of large flowering varieties. Pkt. 5c; oz. 80c

Brown and Gold.

Crimson and Gold.

Purple and Gold.

Rose and Gold.

## SALVIA

**Salvia or Flowering Sage**—A tender perennial blooming the first season from seed and growing two to three feet high. The blossoms are borne on long stems in racemes or spikes, and are fragrant. The plant forms a bunch and blooms profusely during the whole summer and fall.

**America, or Globe of Fire**—This is the freest and most continuous bloomer; also the most uniform in habit of growth, which makes it particularly valuable for bedding or planting in lines. Per pkt. 25c

**Salvia Splendens (Scarlet Sage)**—One of the handsomest flowering plants we have for garden decorations. Excellent for filling large beds or borders in the garden; continuously in bloom from early August until the first killing frost. Beautiful scarlet; large flowering. Pkt. 5c; ¼ oz. 50c

**Clara Bedman (Fireball)**—The plants form handsome globular bushes about two feet in diameter. The spikes grow upright and stand clear above the foliage, completely enveloping the plant, and are of a most brilliant dazzling scarlet. Pkt. 10c

**Pratensis Atro-Violacea**—Dark violet, 20 in. Pkt. 25c

**Zurich**—A splendid dwarf variety, growing about 2 feet high, and is especially valuable on account of being the earliest to bloom, flowering ten days in advance of any other sort. Pkt. 5c; ½ oz. 75c

## SANVITALIA

**Procumbens Fl. Pl.**—6 in. Sanvitalia flowers are much like tiny Zinnias, being golden yellow with very dark purple centers, some of them single and others double. The plants grow only six inches tall, or rather they are prostrate and spread over the soil instead of growing upward. They start blooming in June and continue until frost. Pkt. 10c

## \*SAPONARIA

**Ocymoides Splendens**—6 in. A showy dwarf trailing plant, producing a sheet of vivid crimson flowers. June-August. Per pkt. 10c

## \*SAXIFRAGA (Megasea)

These will thrive in any kind of soil and in any position; grow about 1 ft. high and are admirable for the border of shrubbery, forming masses of handsome, broad deep green foliage with pretty rose-pink flowers which appear very early in the spring.

**Decipiens Grandiflora**—Masses of white flowers. 18 inch. Per pkt. 25c

**Rhei Superba**—Rose. 12 in. May-July. Seeds, pkt. 25c

## SCABIOSA

(Mourning Bride, Sweet Scabious, Pin-cushion Flower, etc.)

These are firm favorites with many of our customers. Seed can be sown any time in the spring, after danger of frost is past. They grow about 2½ feet high, and come into bloom early in July, and continue without interruption until hard frost. The beautiful flowers in exquisite shades are borne on long stems, and when cut keep in perfect condition for the best part of a week. They make effective borders or beds, and no garden is complete without Scabiosas, especially where flowers are wanted for cutting.

Lavender.

Black Purple.

Cherry Red.

Yellow.

Mixed.

Fiery Scarlet

Flesh.

Rose.

Snowball.

Price, any of above, Pkt. 5c each

## \*SCABIOSA (Perennial)

**\*Caucasica Alba**—White. Pkt. 10c.

**Caucasica Lilac**—Pkt. 10c.

**Caucasica Perfecta**—Light blue flowers, long stem; fine for cutting. 18 in. June-October. Seeds, per pkt. 15c

**Caucasica New Hybrids**—A collection of new shades in this well-known perennial family. Per pkt. 25c

**\*Columbaria**—This is a novelty from South Africa. There is a decided place for this in your Perennial list. It is hardy, low growing, with a fine light green foliage. Some of the flowers measure two and a half inches across, with short compact petals, borne on long slender but strong stems. We offer this in two colors, lavender and pink. Per pkt. 25c

## SCHIZANTHUS

Butterfly or Fringe Flower

Very popular charming annuals, very decorative for garden beds and indispensable for pot plants for the house, where, by successive sowings, a continuous display may be enjoyed almost all the year around. The plants are compact, 1 to 1½ feet high, and their florescence is such as to completely obscure the foliage, making them veritable pyramids of dainty, airy, butterfly-like flowers. The seeds germinate very quickly and the plants come into bloom a few weeks from sowing.

**Hybridus Grandiflorus**—1 ft. (The Poor Man's Orchid.) Neat pyramidal bushes covered with a multitude of small butterfly-like flowers of the most brilliant and striking color designs. Pkt. 10c

**Wisetonensis**—1½ ft. A charming annual with graceful fern-like foliage and a profusion of flowers varying from almost white with yellow eye to a brilliant rose with bronzy brown center. A really beautiful subject for the flower border from seed raised in February, and for winter decoration in greenhouse from seed raised in May and June. Pkt. 10c

Mixed—All colors. Pkt. 5c; ¼ oz. 15c.

## \*SCUTELLARIA

**Celestina**—Blue. Pretty Siberian rock plant.



**\*SIDALCEA**

Erect-growing, more or less branching plants, producing their showy flowers during June-July. They will succeed in any garden soil in a sunny position.

Rose Gem—2-3 ft. July-August. Beautiful rose-pink flowers. Very distinct. Per pkt. 15c

**\*SILENE (Catchfly)**

Useful plants for front row of herbaceous border, bearing quantities of bright flowers.

Schafta—4 in. July-October. Bright rose; one of the best Autumn border plants. Per pkt. 15c

**SNAPDRAGON**

(See Antirrhinum)

**\*SOLIDAGO (Golden Rod)**

Virgo-aurea Alpestris—Yellow. 10 in. Spring. Per pkt. 15c

**STACHYS**

Lanata—1-1½ ft. Grown for the effect of its dwarf, white woolly foliage; the flower spikes should be removed. Per pkt. 10c

**STATICE (Sea Lavender)**

Our annual Statice is not only a beautiful flower in the border, but dries retaining its true colors, which are rare among everlasting, and have come to be indispensable in making winter bouquets.

Bonduellii—Producing numerous heads of bright yellow flowers. Pkt. 10c

Sinuata Blue—Pkt. 5c. Sinuata Lavender—Pkt. 5c.

Sinuata Rose—Pkt. 5c. Sinuata Mixed—Pkt. 5c.

Sinuata White—Pkt. 5c.

Yellow—Pkt. 5c.

Russian (Suworowii, or Rat Tail)—1 ft. Flowers bright rose color. Pkt. 10c.

**\*STATICE (Sea Lavender)**

They are stemless, the leaves springing direct from the root stock and the flower stems are more or less twiggy, bearing their small flowers in much-branched panicles. The flowers are useful for drying for winter use. They belong to the Thrift order.

Caspia—The multitude of small flowers composed in spikes of a height of 2 to 3 feet, are of a tender lilac color. Per pkt. 15c.

Latifolia—2 ft. Dense branching plumes of deep blue flowers. Per pkt. 10c.

Perezii—Bright blue. Pkt. 25c.

**STEVIA**

Serrata—2 ft. Free-blooming plants, bearing a multitude of fragrant pure white flowers; suitable for summer or winter blooming and cutting. Pkt. 10c

**STOKESIA (Cornflower Aster)**

Cyanea—This is not new, but is a rare and beautiful hardy perennial. The plant grows about 24 inches high, each bearing from 20 to 30 handsome lavender-blue cornflower-like blossoms; in bloom from July till frost. One of the choicest subjects for the hardy border and indispensable for cutting. Mixed, Pkt. 5c

**STOCKS**

Gilliflower—The Stock is one of the most popular annuals, either for bedding or pot culture; for brilliancy and diversity of color, fragrance, profusion and duration of bloom it is unsurpassed. Start the seed in February and March, and as soon as the plants have their second pair of leaves, prick out into shallow boxes and in about four weeks the plants will be ready to pot; from which they should be transferred to the open ground in May or June.

**IMPROVED LARGE FLOWERING  
10 WEEK STOCKS**

Azure Blue.  
Brilliant Blue.  
Blood Red.  
Dark Blue.  
Mixed.

Flesh.  
Rose.  
White.  
Yellow.

Price, any of above, pkt. 5c each

**You Can**

Select 3-10c packages for.....25c  
Select 2-15c packages for.....25c  
Select 8-10c packages for.....50c  
Select 5-15c pkgs. Flower Seeds for 50c

**STOCKS**

Giant Perfection "Cut and Come Again" 1½ ft.

Cut-and-Come-Again—Splendid perpetual-blooming class; sown in March or April they begin flowering in July, continuing till frost, and are especially valuable during September and October, when other flowers are scarce they throw out numerous side branches, all bearing very double, fragrant flowers.

Brilliant—Blood Red.

Creole—Canary Yellow.

Empress Augusta Victoria—Silvery Lilac Flesh.

Heatham Beauty—Rose Shaded Terra Cotta.

La France—Pale Blush.

May Queen—Pale Blue.

Princess Alice—White.

President Wilson—Violet Slate.

Queen of the Belgians—Pale Violet.

Rose—Rose Pink.

Sapphire—Violet.

Snowdrift Early—Pure White.

Finest Mixed.

Price, any of the above, 10c pkt., 3 for 25c

**STOCKS****Mammoth Early Branching Nice**

This variety is now recognized as the most valuable of all Stocks for cutting purposes and the most popular for general use.

If sown early, they come into flower as early as Dwarf Ten Week varieties; the flowers are larger, and the branching habit renders them invaluable for florists.

ABUNDANCE—Carmine Rose.

ALMOND BLOSSOM—White Tinted Carmine.

APPLE BLOSSOM—White Tinted Pink.

AURORA—Chamois.

BEAUTY OF NICE—Delicate Flesh.

BELLE OF NAPLES—Old Rose.

BRIGHT VIOLET—Fine Rich Violet.

COTE D'AZURE—Light Blue.

CRIMSON KING—Brilliant Crimson.

GOLDEN SHEAF (new)—Chamois, Shaded Rose.

LILAC (new).

MADAME RIVOIRE—Earliest White.

MONT BLANC—Pure White.

PARMA VIOLET—Pale Violet.

QUEEN ALEXANDRA—Rosy Lilac.

ROSE QUEEN—Brilliant Deep Rose.

SALMON KING—Salmon Rose.

SOUVENIR DE MONACO—Crimson.

SUMMER NIGHT—Dark Blue.

WHITE OF NICE.

YELLOW OF NICE.

All Colors Mixed. Pkt. 10c.

Price, any of the above, 10c pkt., 3 for 25c

**TAGETES**

This is what one of our customers says: "The one annual I always enthuse over is the Mexican Marigold, but the seedsmen so often hide it in their catalogs, it seems to me, that we fail to see it. They call it Tagetes signata pumila. It has a starlike, yellow flower and very dainty, finely cut leaves."

Signata Pumila—10 in. A miniature Marigold forming compact little plants and completely covered with flowers, which are bright yellow with brown stripe down the center of each petal. Very striking for edgings. Sow the seed in spring in boxes and transplant. Pkt. 10c

**\*BUTZER'S PERENNIAL  
FLOWER GARDEN**

We have made up a mixture of the most showy and easily grown perennials. As a great many of our customers do not care for the names of the different varieties but want a lot of flowers the whole season, with this in mind we have made up this mixture. Under ordinary gardening methods, the planter may expect quite a surprise at the great display of beautiful flowers. Try a package on our say-so. Large Package, 15c, 2 for 25c; oz., 50c, postpaid.



**BUTZER'S GIANT FLOWERING SWEET PEAS**

AN OUNCE WILL PLANT 25 FEET OF ROW

**Culture**—Early planting is advised so that they may bloom before very hot weather. Dig the soil deeply to allow deep rooting. Open a trench four to six inches deep, in which plant the seeds early in February and cover with an inch of soil and press it firmly. When up about two inches begin cultivating and gradually fill the trench until it is level. Do not allow the roots to become too dry; water at least twice a week. Be sure to gather the blooms, otherwise the vines will stop flowering.

**Fall Planting**—Sweet peas may also be started in October, November and December, planting four to six inches deep; give them slight protection and they will become well rooted and grow off at the first opening of spring and produce an abundance of blooms earlier and for a longer season than spring plantings.

Gather sweet pea blooms frequently; the more you cut them the better and longer they bloom.

**Butzer's Spencer or Orchid Flowering Sweet Peas**

The Spencers offered here have all proved their merit and represent the cream of the best varieties and a wide range of colors. They are our selection from a long and confusing list of many hundreds of varieties.

All Named Varieties—Pkt. 10c; 8 pkts. your selection for 50c; oz. 25c; ¼ lb. 75c; lb. \$2.50, postpaid.

AMERICA—Red flake. white ground.  
 AUSTIN FREDERICK IMPROVED—Giant lavender.  
 BARBARA—Salmon.  
 BLUE BIRD—Real Blue.  
 BRILLIANT ROSE—Bright tyrian rose.  
 CHARITY—Scarlet crimson.  
 COLORADO—Bright orange.  
 CRIMSON KING—Rich deep crimson.  
 DAFFODIL—Deep cream.  
 DAISYBUD—Deep apple blossom.  
 ELEGANCE—Giant blush pink.  
 ELFRIDA PEARSON—Giant shell pink.  
 FIERY CROSS—Bright red orange cerise.  
 FLUFFY RUFFLES—Rich rose pink duplex.  
 GIANT WHITE.  
 GLORIOSA—Orange scarlet.  
 GOLD CREST—Orange tinted salmon.  
 HAWLMARK CERISE.  
 HAWLMARK LAVENDER—Clear light lavender.  
 HAWLMARK PINK—Rose pink shaded salmon.  
 HELEN LEWIS—Standard orange, wings salmon.  
 HERCULES—Giant pure pink.  
 HUNTSMAN—Bright scarlet.  
 KING WHITE—Large pure white.  
 MARGARET ATLEE—Rosy salmon buff.  
 MARY PICKFORD—Dainty cream pink suffused salmon.  
 MISS CALIFORNIA—Orange salmon, cream pink.  
 MRS. TOM JONES—Best azure blue.  
 MODEL—Large white.  
 OLYMPIA—Rich purple.  
 PINKIE—Large rose pink.  
 R. F. FELTON—Lavender.  
 ROBERT SYDENHAM—Bright orange salmon.  
 ROYAL PURPLE—Rich purple.  
 ROYAL SCOT—Glowing scarlet cerise.  
 SENATOR—Chocolate flake.  
 SUNSET—Bright rose, amber ground.  
 TANGERINE IMPROVED—Orange.  
 THE PRESIDENT—Dazzling orange scarlet.  
 VALENTINE—Shell pink.  
 WARRIOR—Giant maroon.  
 WHAT JOY—Cream.  
 WONDERFUL—Salmon red.  
 YOUTH—Large white, pink picotee.

**CUPID, DWARF OR BEDDING SWEET PEAS**

These form a line of emerald-green foliage a little over a foot wide and 6 inches high, and from June until late summer are literally a sheet of bloom; the mixture contains all the colors.

Little Nell—Pink and white. Pkt. 10c.  
 Midshipmite—White edged violet blue. Pkt. 10c.  
 Rosebud—Apricot pink. Pkt. 10c.  
 Mixed—Above three varieties. Pkt. 10c.

**BUTZER'S "ROSE CITY"  
 SWEET PEA  
 COLLECTION  
 25c Postpaid**

This Collection Contains One Package  
 Each of the Following—All  
 Giant Spencers

**BLUE**

Blue Bird—A fine blue summer glow-variety of large size and rich coloring. The flowers are very much waved.

**CREAM PINK**

Fluffy Ruffles—A new type with large double and ruffled blooms of a most beautiful light cream pink color.

**DEEP CERISE**

Fiery Cross—Deep cherry red, standard, suffused orange. Rich cherry orange wings.

**LAVENDER**

Austin Frederick Improved—The color is a pleasing shade of bright lavender.

**ORANGE**

Colorado—A shade of orange that will please on account of its richness and brilliance of large well placed blooms.

**SCARLET**

Huntsman—A bright shade of scarlet, really a wonderful bit of color. Perfectly sun-proof and of largest size. An outstanding English novelty.

25c FOR THIS COLLECTION

**BUTZER'S SPENCER or ORCHID-FLOWERED SWEET PEA MIXTURE**

This popular mixture is planted each year by thousands of our customers who like to have a showy row of Sweet Peas. This mixture contains the very best of the named Sweet Peas as well as some of the unnamed. We believe that it is the very best mixture that can be made, and we know that it will surely be a delight to you and also to your friends. All of the leading colors are represented. Plant them this fall.

Price per pkt. 5c; oz. 15c; 2-oz. 25c; 4-oz. 50c. Postpaid

**EARLY FLOWERING SPENCER SWEET PEAS**

Aviator—Dazzling crimson-scarlet.  
 Columbia—Best pink and white.  
 Glitters—Orange-scarlet.  
 Heather Bell—Lavender.  
 Miss Louise Gude—Brilliant pink.  
 Snowstorm—White.  
 Zvalanek's Rose—Rose-pink.

Price  
 Per pkt. 15c;  
 oz. 50c

**EARLY FLOWERING SPENCERS MIXED**

A choice mixture of the foregoing named Early Flowering Spencer varieties, and others.

Pkt. 10c; oz. 50c; ¼-lb. \$1.75



## \*SWEET WILLIAMS

**Dianthus Barbatus**—A well-known attractive, free-flowering, hardy perennial, producing a splendid effect in beds and borders, with rich and varied flowers. The demand for separate colors has induced us to offer this season several of the best and most distinct flowers.

Dark Crimson. Pkt. 5c.

Pink Beauty. Pkt. 5c.

Scarlet Beauty. Pkt. 5c.

Double White. Pkt. 5c.

Double Mixed. Pkt. 5c.

Single Mixed. Pkt. 5c.

## THALICTRUM (Meadow Rue)

The foliage is very finely divided like that of the Maiden-hair fern or Columbina and is useful in making bouquets. The flowers are borne in feathery clusters. Easy of cultivation. Belong to the Buttercup order.

**Dipterocarpum**—4 to 5 ft. Aug.-Sept. Very graceful plumes of rosy purple flowers with conspicuous yellow anthers. 25c per pkt.

## THUNBERGIA

**Black Eyed Susan**—Beautiful rapid-growing climbers, fine for vases, rustic work or greenhouse culture. Half-hardy annuals; five feet. Fine mixed. Per pkt. 5c.

## \*TRITOMA

**Hybrida Mirabilis**—An annual Red-Hot Poker Plant. Seed should be sown in temperate heat from January to March, pricked off and treated like half hardy annuals. The seedlings may be planted in open ground from end of April to May and they will bloom freely from August to late in the autumn. Pkt. 15c.

## \*TUNICA

**Saxifraga**—A pretty tufted plant with light pink flowers, produced all summer. Useful either for the rockery or the border. Per pkt. 15c.

## \*VERBASCUM

**Hybridum, Miss Willmott**—Hardy biennial. The large flowers are produced in stately spikes, rising to a height of 5 to 6 feet and continue from July to frost. A lovely white variety. Seeds, per pkt. 15c.

**Phoenixium Hybrids**—2 ft. Bears white, purple, rose or red flowers in erect spikes in summer. A native of Europe and Asia. Seeds, 25c per pkt.

## VERBENAS

Verbenas are free flowering hardy annuals of low spreading growth. Single plants in rich soil will cover a space three or four feet in diameter and furnish a profusion of flowers. If the flowers are kept cut, the plants will bloom much more freely. Plants grown from seed are not only cheaper than those grown from cuttings, but are more vigorous.

**Mammoth Strain**—This is without doubt the finest strain in existence. White, scarlet, pink, purple, blue or finest mixed. Pkt. 10c.

## \*VERONICA (Speedwell)

Among the prettiest of herbaceous plants, bearing in most cases blue flowers, which are much needed.

**Prostrata Mixed**—Blue and white. Trailer. June-July. Per pkt. 25c.

## VIOLA CORNUTA

**"Tufted Pansies"**—The flowers are not so large as regular pansies but bloom so freely that for bedding effect they are unsurpassed. The colors are distinct and they also bloom for a long time.

**Blue Perfection**—Deep bright blue. Pkt. 15c.

**Jersey Gem**—Forms a large, compact plant, producing a continuous profusion of bloom for a very long period. The flowers are a very pleasing shade of deep violet-blue, with an occasional very slight variation in tint, and may be relied upon to come about 70% true from seed. A great feature of this fine variety is its wonderful power of resisting drought, the plants continuing to throw up flowers long after other varieties are withered up. Pkt. 25c.

Purple—Pkt. 15c; Mixed—Pkt. 10c.

## VIOLET (Viola Odorata) (Sweet Violet)

No garden is complete without a nice bed of violets. They bloom ahead of other flowers, and their fragrance is delightful. They will thrive in shady places and therefore can be planted where other plants will not do well. A violet bed around the foot of a big shade tree is very attractive. Provide good rich soil and after you once get a bed established you can get any number of plants by dividing the roots. Hardy perennial.

Pkt. 10c

## VIOLET ODORATA

**Bosniaca**—Free-blooming, small deep purple flowers. Pkt. 25c.

**Florariense**—This variety forms large compact plants producing a continuous profusion of bloom for a long period, considerably longer than other Violas. The flowers are a very pleasing shade of pale lavender. The plants continue to throw up flowers long after other varieties are withered up. Splendid rock garden plant. Pkt. 35c.

**Gracilis**—Dark Violet Blue—Very free blooming new variety. Flowers same size and color as the Sweet Violet. Can be used in rock gardens in place of Viola Jersey Gem which it resembles. Pkt. 35c.

**Gracilis Lord Nelson**—Glowing violet-purple. 6 in. April-August. Pkt. 35c.

**Johnny-Jump-Up or Viola Tricolor**—The probable ancestor of the pansy, whose native habitat is the cooler parts of Europe, has long been known to us as the ladies' delight, or none-so-pretty of our grandmothers' gardens and is still a precious possession, even though we have to weed out the plants where they take possession and crowd out more delicate kinds. They make a braver show than their aristocratic relative, the viola, which does not always survive our Winter changes, and if allowed to seed will carpet the rose or iris bed with a sheet of tiny flowers facing the sun in May. They are persistent bloomers and one may even find blossoms on some plant in mid-winter, although the stems are then hardly long enough to pick. Purple, blue and yellow are the three colors that give them their name and the combinations are variable; sometimes there will be a yellow blossom and below it on the same stalk one of yellow and blue. Pkt. 25c.

## WALL FLOWER

Very highly prized, old-fashioned plants grown largely for their fragrance; half-hardy perennial varieties; 1½ feet.

## SINGLE FINEST MIXED

Single Finest Mixed—Pkt. 5c.

## DOUBLE TALL BRANCHING WALLFLOWER

Double Tall Branching. Finest Mixed—Fragrant, 3 feet. Per pkt. 10c.

## WILD CUCUMBER

The quickest growing climber on our list, attaining a length of 30 feet in one season. It is thickly dotted with pretty, white, fragrant flowers, followed by an abundance of ornamental and prickly seed pods. It will quickly cover an old tree or an unsightly building. Pkt. 5c; oz. 20c.

## "WILD" FLOWER GARDEN

To those who cannot bestow the necessary care required in a neatly laid out flower garden the "Wild" Flower Garden presents a substitute which for its usual varied effect, for cheapness and small amount of labor necessary for its construction, has no rival.

"Wild Flower Garden Seeds" are a mixture of over 100 varieties of hardy flower seeds. Per pkt. 5c; oz. 20c.

## XERANTHEMUM, MIXED

Plants 2 feet high, producing small double flowers, which are easily dried for winter bouquets. Grows readily from seed sown early in the Spring. The flowers are very graceful. Free-flowering. Pkt. 10c.

**HAVE YOU ORDERED YOUR SWEET PEA COLLECTION?** See Page 53.



## DAHLIA FLOWERED ZINNIAS

This wonderful flower creates a sensation wherever it is grown and it has probably gained popularity more quickly than any other improved garden flower offered in recent years. The large size, fullness of petals, extraordinary color range, and good keeping qualities have all contributed to its popularity. The flowers resemble in appearance the Decorative Dahlia and is called the Dahlia Flowered Zinnia for this reason. When in full bloom they often measure five to six inches in diameter.

**Canary Bird**—A delicate shade of primrose—very large and holds its color well until out of bloom. Per pkt. 10c.

**Crimson Monarch**—By far the largest and best of the red shades. Flowers often 8 inches in diameter. Plants very vigorous. A marvelous production of extraordinary merit. Per pkt. 10c.

**Dream**—A fine deep lavender, turning to purple (Mallow Purple), a new, desirable shade in Zinnias. Per pkt. 10c.

**Exquisite**—By far the most pleasing of our collection. Truly DAHLIA flowered as regards form and size. Color light rose with center a deep rose. (Tyrian Rose.) Per pkt. 10c.

**Golden Dawn (New)**—A beautiful golden yellow of immense size and good form. Very attractive. Pkt. 10c.

**Golden State**—A very rich orange yellow (Cadmium). Yellow in the bud, turning to an attractive orange when in full bloom. Per pkt. 10c.

**Illumination**—Similar to Exquisite, but a striking self color of deep rose. (Tyrian Rose.) Per pkt. 15c.

**Lemon Beauty**—This is next to Crimson Monarch in size and form. It may be described as a golden yellow on brown. Decidedly a pastel shade, and should be in every collection. Pkt. 10c.

**Meteor**—A rich, glowing deep red (Spinel Red), and the darkest of all the red shades. Fine form, with good depth of petal. Very large and more floriferous than other reds. Per pkt. 10c.

**Oriole**—We consider this the most beautiful of its class. It is an immense orange and gold bicolor, changing slightly as it ages, but at all times worthy of the beautiful bird for which it is named. Pkt. 10c.

**Old Rose**—This is adequately described by its name, as it is of the real Old Rose Shade; it is large, and for charm and beauty we consider it ranks next to Exquisite. Per pkt. 10c.

**Polar Bear**—A very large pure white, the best white yet seen in Zinnias. True Dahlia form. Per pkt. 10c.

**Purple Prince**—A fine, deep purple (Rhodanthé Purple) large and well-formed. Pkt. 10c.

**Scarlet Flame**—A large, beautiful, bright scarlet, with a delightful blending of orange throughout the petal. This is not a bicolor. Per pkt. 10c.

**Youth (New)**—A beautiful soft rose self; valuable for forcing and a good shipper, having better lasting qualities than any other variety we grow. Pkt. 10c.

**Butzer's Special Mixture**—A well blended mixture, containing all the above novelties. Per pkt. 10c; 3 for 25c.

## ZINNIAS—GIANTS OF CALIFORNIA

This type was introduced in 1926, with the conviction that it was a type that would become a favorite. This is a mutation from the Dahlia Flowered type and the general approval in the past four years has encouraged us to go further into the development of this for florists' and general use. The great advantage of this type is that the very large flowers are of enormous size and flat, getting away from the conical type of the Giants and eliminating the stiffness that has been so objectionable in Zinnias in the past. The flowers from the time they open are attractive, making them a good cut flower from the early bud until they are in full bloom. They are twice the size of the ordinary Giants.

**Cerise Queen**—Beautiful cerise rose.

**Enchantress**—Color same as Exquisite in Dahlia Flowered type.

**Miss Wilmott**—Soft pink.

**Orange King**—Cadmium or burnt orange.

Price, any of the above, 10 cents per package; 3 packages for 25 cents; 8 for 50c;

### GIANT PICOTEE ZINNIAS

A remarkable new and distinct class with beautiful double flowers in orange, flesh, lemon, pink and cerise, each petal being distinctly tipped with various shades of dark, resembling the Picotee Carnations.

**Golden Pheasant**—A variety of the above, having flowers of a deep orange with maroon tips. Pkt. 10c.

**Giant Picotee Mixed**—Pkt. 10c.

### POMPON OR LILIPUT DOUBLE ZINNIAS

12 to 15 in.

The plants form handsome little bushes and fairly bristle with tiny, short-stemmed, very double flowers hardly exceeding a daisy flower in size. They are very pretty plants; bloom all summer until late in the fall.

**Canary Gem.**

**Crimson Gem.**

**Delicate Flesh Gem.**

**Golden Gem.**

**Orange Gem.**

**Liliput Mixed, all colors.**

**Purple Gem.**

**Salmon Rose Gem.**

**Scarlet Gem.**

**White Gem.**

Each of the above, pkt. 10c.

**Orange Queen**—Golden yellow.

**Purity**, white.

**Rose Queen**—Striking bright rose.

**Scarlet Gem**—Glowing scarlet.

**Finest Mixed.**

### QUILLED TYPE ZINNIAS

**Achievement or Victory Mixed**—The petals are partially tubular or quilled giving the flower somewhat the appearance of a cactus dahlia and displaying a rich variety of colors mostly of the warmer shades, such as salmon, old rose, deep rose, lilac, bronze and dark red tones. On the reverse side the petals are light or dark lilac, making a wonderful combination of colors. The plants are of strong, robust growth and produce an abundance of very large, double flowers often 5 inches in diameter. Pkt. 10c.

### PUMILA PICOTEE ZINNIA

#### DELIGHT Finest Mixed

Delight can be classed as a Pumila type, very floriferous and of compact growth. The petals of the flowers are ruffled and curled, giving a light and dainty effect. Each petal is beautifully picoteed, making it a most striking flower. This is an excellent variety for basket work and florists' use, and we urge you to introduce it as such.

The assortment of colors includes salmon shades, cream, buff, biscuit, golden yellow and lavender. Pkt. 25c.

## DWARF DOUBLE ZINNIAS—Large Flowering

### THE BEST BEDDING VARIETY

This we consider the best Zinnia for bedding, forming bushy compact plants not over 2 feet high, bearing large perfect flowers.

**Bright Scarlet**, very rich.

**Canary**, clear yellow.

**Salmon Rose**, a pleasing shade.

**Snowball**, pure white.

**Mixed**, all colors.

Price, any of the above, 10 cents per pkt.; 5 sorts 35 cents; ¼ oz. 25 cents.

## "ROSE CITY" MIXTURE ZINNIAS

This is a mixture of all the varieties that we list and will give you a wonderful display of flowers. Pkt. 10c; ¼ oz. 35c; 1 oz. \$1.00.



# OREGON GROWN ROSE BUSHES

"THE WORLD'S BEST"—ALL TWO-YEAR FIELD GROWN, BUDDED AND POSTPAID



## Suggestions on Cultivation

**Location of Beds:** Roses like warmth and shelter from high winds, but they must also have a free circulation of air; plant apart from other things whose roots will sap the soil and their tops shade them. Roses must have sun for at least half the day; avoid placing them alongside of a building or tight fence.

**Soil and Its Preparation:** While Roses will grow in almost any soil when properly prepared, a deep clay-loam is the best. The soil should be dug or trenched to a depth of twenty-four to thirty inches, and a liberal quantity of well rotted manure or any other humus mixed with it. If possible, prepare the beds in advance, this allows them to settle.

**Planting:** Roses may be planted any time the weather is open after November 1st until about May 1st; these dates vary according to the season. We recommend fall planting; thus the bushes are established when spring comes and they will give earlier and better blooms.

In planting budded Roses, be sure to cover the junction of the bud with the under stock at least three inches. In ordinary plantings, the bushes should be set from two to two

and one-half feet apart. Have the hole large enough to receive the roots without crowding. Place them in a natural position, cover with fine soil, taking care no fresh manure touches them as it is apt to burn; firm the earth well. If the soil is at all dry, use plenty of water to thoroughly settle the dirt around the roots and drive out all air. This is especially true in early fall and late spring plantings.

As the roots are the foundation of your plant, do not neglect them; protect them from exposure to sun, wind or frost. Plant as soon as possible after receiving them, first cutting off all broken or bruised roots.

If plants arrive when ground is not prepared, unpack and heel in, covering the roots and two-thirds of the top with fine soil; water thoroughly to drive out all air.

If some of the bushes should appear shriveled, due to delays in transit, dig a shallow trench, lay plants flat on bottom, cover entire plant and wet down thoroughly. After four or five days they will be plump and in good condition; plant as soon as possible.

Here in this spot Nature has lavished upon us her choicest gifts in perfect climate for Rose growing, and the best soil in the world in which to grow them.

For more than a quarter of a century this has been known as "The Rose City," by virtue of the fame of the Rose.

Our Roses grow to perfection. They will produce in generous abundance, this and every year, their exquisitely beautiful blooms, whose fragrance will, like incense, prove a benediction of gladness and contentment to you, your family, and your friends.

**PLANT ROSES!** Plant lots of them! Buy direct, these, the best grown Rose plants in America. Our prices give no idea of their real value.

While many of my customers are familiar with the grade of roses which I send out, yet I wish to direct the attention of those who have never planted my stock as to the manner in which these are prepared. My plants are two years old and are what is called field-grown, that is, the plants have been cultivated in the field during the growing season. In the Fall they are carefully dug and are ready for market.



# OREGON-GROWN ROSE BUSHES—"The World's Best"

ALL TWO-YEAR-FIELD GROWN, BUDDED AND POSTPAID  
35c EACH; 3 FOR \$1.00; \$3.50 PER DOZEN, POSTPAID

**American Beauty (H. P.)**—One of the largest, sweetest and best; rich, rosy crimson, shaded and veined in a most charming manner.

**Augustus Hartman (H. T.)**—Brilliant red flushed with orange. Very large well formed flowers with high pointed center.

**Betty (H. T.)**—Beautiful coppery-rose color, over-spread with golden-yellow; fragrant.

**Chateau de Clos Vougeot (H. T.)**—A very rich, fiery scarlet shading to deep velvety crimson. It is delightfully fragrant, a prolific and continuous bloomer.

**Cheerful (H. T.)**—Large, full flowers of perfect shape and form, with enormous individual petals and grand general character. Color, rich orange flame over-spreading the petals to a distinct orange yellow base.

**Columbia (H. T.)**—This beautiful rose is of strong, vigorous habit of growth and exceptionally free-blooming. The flowers, which are of good size, are perfect in form, both in bud as well as when fully expanded. In color it is a most pleasing shade of rose-pink and delightfully fragrant.

**Constance (H. T.)**—Rich orange yellow, distinctly streaked and splashed with crimson, long pointed buds; free bloomer.

**Countess Clanwilliam (H. T.)**—A distinct and charming rose, producing flowers in great abundance. Color delicate peach pink, petals flamed and edged with deep cherry red. Long pointed buds opening to large full flowers. Of strong, vigorous habit.

**Crimson Emblem (H. T.)**—A superb new Irish rose of a rich and glorious crimson color heavily shaded maroon. Buds and flowers of superb form, of fine size and produced on fine long stems, admirably adapted for cutting. Wonderful mildew-proof foliage.

**Donald MacDonald (H. T.)**—Orange-carmine, semi-double flowers of medium size; perfumed. Blooms in sprays; compact growth.

**Dorothy Page Roberts (H. T.)**—Coppery pink, suffused with apricot yellow, very free and perpetual, a delightful garden rose.

**Duchess of Wellington (H. T.)**—Intense saffron yellow stained with rich crimson which as the flower develops, becomes deep coppery saffron yellow. Delightfully fragrant.

**Florence Pemberton (H. T.)**—Large, full flowers, beautifully formed; creamy-white, suffused pink, particularly in center.

**Frau Karl Druschki (H. P.)**—The white American Beauty. Makes splendid buds and immense flowers; perfectly double.

**General MacArthur (H. T.)**—Dazzling crimson scarlet; delicious perfume and magnificent foliage. Blooms in great profusion.

**General Jacqueminot (H. P.)**—Rich, velvety crimson, changing to scarlet crimson. A magnificent rose, equally beautiful in the bud state or open.

**Golden Emblem**—A grand new Irish rose of ideal habit of growth, with holly-like, glossy green foliage, each stem bearing a glorious golden yellow flower of the finest form. The peer of all yellow roses.

**Golden Ophelia**—Rich golden-yellow flowers in greatest freedom on stout, wiry stems, clothed with glossy, dark green foliage. Especially well adapted for cutting and personal adornment.

**Grange Colombe (H. T.)**—Large creamy white, with salmon and fawn centers. Plant very sturdy.

**Grus an Teplitz or Virginia R. Coxe (H. T.)**—Color fiery crimson, with a dark velvety sheen; very fragrant; free blooming.

**Hadley**—A fine American pedigreed rose producing flowers of elegant form and substance. Color rich crimson scarlet shaded maroon. A glorious rose.

**Hoosier Beauty (H. T.)**—A grand new hybrid tea rose of American origin. Flowers dark crimson, shaded with maroon and veined with black; petals of remarkable substance—like so much crimson velvet; buds beautifully formed, with fine, pointed shape, opening into large, double flower.

**Hugh Dickson (H. P.)**—This superb Irish rose stands in the front rank as a producer of the very finest brilliant crimson-scarlet roses. Of strong, vigorous growth and free flowering habits; one of our most favorite varieties

**Humboldt (H. T.)**—Bud medium size, long pointed, flower medium double, very lasting, bright rose-pink on long stems. Vigorous, upright grower, few thorns, very hardy.

**Imperial Potentate (H. T.)**—Rich, rosy carmine, fine buds, splendid cut flower, sweetly scented.

**Irish Elegance**—Bronze orange in the bud, opening into large single flowers of a lighter shade. Vigorous growing and perpetual blooming.

**Irish Hope (H. T.)**—Bud large, long pointed, very lasting, extremely fragrant, rich rosy carmine with maroon shading. Vigorous upright grower, very hardy.

**J. B. Clarke (H. T.)**—Irish variety of great merit either for garden decoration or cut flowers. The color is bright crimson shaded maroon; petals large, flowers very full and perfectly formed. Flowering from early summer until late autumn.

**Juliet (H. B.)**—Flowers beautifully formed, with petals of fine shape and substance. The color is a bright orange-red on the inside of petals, while the reverse side is of a rich old gold color.

**Kaiserin Aug. Victoria (H. T.)**—Elegant, large pointed buds; large, full, double flowers; color delicate creamy-white; fragrant.

**Killarney Brilliant (H. T.)**—Color an exquisite shade of deep shell pink lightened with silvery pink. The base of the petals is a soft silvery white relieved with enough yellow to make it more attractive. The buds are exceptionally long and beautifully formed.

**Killarney Double White (H. T.)**—A distinct rose similar to the famous Killarney in size, shape and fragrance, but snow white.

**Kitchener of Kartoum (H. T.)**—Dazzling scarlet; single flowers in great masses; a wonderful new decorative rose; should not be pruned but allowed to grow naturally. Something different.

**La Champagne (H. T.)**—Large buds and medium-sized, semi-double (25 petals), blooms peach-colored with yellow base. Vigorous plant. The buds are especially lovely, and the stiff stems hold the flowers erect, even after heavy rains.

**La France (H. T.)**—A silvery rose, changing to pink. A general favorite. Sweetest of all roses.

**Lady Alice Stanley (H. T.)**—A gem that everyone admires; it is absolutely perfect in every way; in color it is a beautiful shade of coral-rose, the inside of the petals shading to flesh-pink, fragrant.

**Lady Ashtown (H. T.)**—Pale Rose du Barri, shaded to yellow at base of petals. Reverse side of petals silvery pink; large, long pointed buds, opening into a beautifully formed flower; a rare and most beautiful variety.

**Lady Hillingdon (T.)**—Deep apricot yellow, long and pointed bud. Flowers are of good substance and very lasting; foliage luxuriant; a fine forcing or garden rose, excellent for cutting.

**Laurent Carle (H. T.)**—Gigantic oval buds and blooms of deep, glowing carmine-crimson, perfectly formed and pungently fragrant. Plant of average growth, with foliage requiring the usual attention. It blooms freely throughout the season.

**Los Angeles (H. T.)**—Flame pink toned with coral and shaded gold at base of petals. Beautifully formed, fragrant, vigorous and very free blooming. Nothing better.

**Louise Catherine Breslau (H. T.)**—Entirely distinct from all other roses in color; a superb shrimp-pink shaded coppery-orange and chrome yellow, large full flowers.

**Miss Lolita Armour (H. T.)**—A magnificent new rose of a rich chrome yellow, shaded to coppery orange. Flowers large, of finest form, on stout canes.

**Mme. Abel Chatenay (H. T.)**—A rose of extraordinary merit. A free bloomer, with flowers of good size and substance. Color beautiful rosy carmine, with darker shadings. One of our finest decorative and garden roses and always in great demand.

**Mme. Butterfly (H. T.)**—A sport from the popular new rose Ophelia, which may be said to be a glorified form of that fine variety. In this new sort all the colors are intensified making it a rich harmony of bright pink, apricot and gold. The unopened buds are especially distinct with their lovely shades of Indian red passing to golden yellow at their base.

**Mme. Edouard Herriott (H. T.)**—The famous winner of the Daily Mail prize. The color being terra cotta bronze and geranium red, a new combination of colors in a rose.



# OREGON-GROWN ROSE BUSHES—"The World's Best"

ALL TWO-YEAR-FIELD GROWN, BUDDED AND POSTPAID  
35c EACH; 3 FOR \$1.00; \$3.50 PER DOZEN

**Mme. Caroline Testout (H. T.)**—A grand rose of the La France type, but with flowers larger and finer. Color, bright satiny pink; very fragrant and free in bloom. One of the handsomest roses and should be planted extensively.

**Mme. Melanie Soupert (H. T.)**—For delicacy in coloring it would be difficult to surpass this magnificent semi-double large-flowered variety which is especially fine in bud form; in color a charming pale tint of salmon-yellow with pink and carmine suffusion.

**Mrs. Aaron Ward (H. T.)**—Deep golden-orange, shading out to creamy-yellow at edge of petals. Beautiful deep buds.

**Mrs. A. R. Waddell (H. T.)**—A strong, rampant growing Hybrid Tea Rose, with foliage that is ornamental in itself. Large, long pointed buds of a bright rosy scarlet, opening into a finely formed flower of a rich apricot or salmon color.

**Mrs. Charles Russell (H. T.)**—"American Beauty" can compete with it when it comes to counting points. Stems three feet long, stiff and surmounted by grand rosy-pink blooms.

**Mrs. Dunlop Best (H. T.)**—Pointed, saffron-yellow buds, with dull apricot shadings, opening to rich, reddish apricot flowers of great sweetness and beauty. Very vigorous, low, spreading growth and is healthy and free flowering.

**Mrs. S. K. Rindge (H. T.)**—A sister variety of Lolita Armour. Buds very long and pointed, rich golden yellow outside of petals stained at base with Indian red.

**Old Gold**—Large reddish orange flowers with copper and apricot shadings. Free blooming. Handsome foliage. Richly beautiful.

**Ophelia (H. T.)**—Orange salmon buds, opening to flowers of dainty pink. The foliage is clean, dark and leathery—growth vigorous and free, producing long canes. Blooms early and continuously.

**Padre (H. T.)**—Coppery scarlet, flushed yellow at base, flowers semi-double with 15 to 20 petals, often curiously notched, exceptionally free bloomer. Color commands attention.

**Papa Gontier (H. T.)**—A magnificent red rose; flower large and semi-double; a vivid cherry red color, shaded yellow, reverse of petals crimson; free-growing and flowering very profusely. One of the very best for open ground. No other red Tea Rose can compare with it.

**Paul Neyron (H. P.)**—Luminous cerise-red. One of the largest roses under cultivation. It is a strong, healthy grower with clean foliage of a rich green shade. An excellent Hybrid Perpetual Rose.

**Pax Labor (H. T.)**—A mammoth very double Rose of pale yellow color that thrives best in warm weather. It is a prolific bloomer, with robust and beautiful foliage.

**Pink Cochet**—Very rank growing for a variety of its class. Strong canes almost thornless springing from the base all season long. Magnificent buds opening into flowers of grand size and build; very lasting and

of sweet tea scent. Color deep rosy pink, inner side of petals shaded silvery rose. Fine for massing in beds.

**Pink Radiance**—Carmine-rose-pink of a magnificent, clear shade. Constantly in bloom from early spring until late fall. A strong grower of graceful upright habit.

**Premier (H. P.)**—A clear pleasing red; does not fade. Good form and habit, excellent for cutting and inside forcing; fragrant, thornless, free blooming.

**Queen of Fragrance (H. T.)**—Large double elegantly shaped shell pink blooms, tipped with silver. Noted for its powerful perfume.

**Rapture (H. T.)**—A sport of that favorite variety Mme. Butterfly with deeper tinted flowers and of more vigorous habit of growth. Free flowering and richly perfumed.

**Red Letter Day**—Brilliant glowing crimson scarlet, opening into medium-sized cactus-shaped flower of curious formation. One of the freest blooming roses extant. Makes a fine decorative subject and equally desirable for bedding.

**Souv. de Claudius Pernet (H. T.)**—On the order of Constance or Golden Emblem but with large elongated and beautiful formed buds. Color is clear brilliant yellow. Wonderful foliage.

**Sunburst (H. T.)**—A veritable giant among yellow roses throwing up heavy canes clothed with most ornamental foliage and crowned with glorious buds and flowers. The buds are very long and of most beautiful form, opening into a gorgeous colored flower. The color is a rich cadmium-yellow shaded with orange and copper. One of the very finest yellow roses yet raised.

**T. F. Crozier**—Flowers very large, full and globular with high built center, produced freely all through the season. Color bright canary yellow shaded and flushed with ivory.

**Ulrich Brunner**—Immense big blooms of a bright cherry-red shade with a lovely rich fragrance. Very free flowering and one of the finest for cutting. Ideal for trailing on a pillar.

**William F. Dreer (H.)**—Soft shell pink, base of petals rich golden yellow. Sometimes the entire flower is covered with a golden suffusion. This rose has the same parentage as the well known Los Angeles and like that sort is beautiful in all stages of development from the opening buds to the well expanded flowers. We are quite sure that all who try this variety will be pleased with it.

**William R. Smith (T.)**—Large, double, creamy white flowers, with strong tints of pink and lilac, produced on long, wiry stems and lasting long when cut. The plant is spreading in growth and the foliage is exceptionally fine, of deep olive-green, thick and leathery, and exceptionally free from disease.

**Winnie Davis**—Fine apricot pink shading to the flesh tint at base of petals. A grand, hardy garden rose.

**Mildew**—This is a flour-like substance that appears upon the foliage of Roses caused by too much dampness. Not especially injurious and can be eradicated by sprinkling foliage, when wet, with ordinary sulphur flour.

## CLIMBING ROSES—50c Each, Postpaid. All Two-year-old Field Grown.

**American Beauty Climbing**—Brilliant carmine.

**American Pillar**—Crimson-pink, large white center.

**Black Boy**—An Australian introduction where it has become a great favorite; a sweet scented large fiery scarlet overlaid with blackish maroon.

**Cascadia**—Small single white in clusters.

**Cecil Brunner**—A climbing Baby Cecil Brunner.

**Crimson Rambler**—Dazzling crimson, strong.

**Dorothy Perkins**—Great clusters of pretty double pink flowers smothering the plant for a long season of the year. Elegant leathery foliage, impervious to mildew and hardy as an oak tree. This sort is now the most generally planted of this class of roses.

**Dr. W. Van Fleet**—Large shell pink, borne on long stems, ideal for cut flower.

**Flower of Fairfield**—Everblooming Crimson Rambler.

**Gloire de Dijon**—Buff-pink, orange shadings, large, full, fragrant, steady bloomer.

**Hiawatha (T.)**—Single, ruby crimson, large single flowers.

**La France, Climbing**—Loosely formed, globular flowers of silver-pink; highly perfumed.

**Lady Hillingdon, Climbing**—Apricot-yellow, fragrant, fine.

**Los Angeles, Climbing**—A fine climbing form of the new Los Angeles. Shrimp pink and coral color.

**Marechal Niel**—Rich golden yellow, fine but not as hardy as Emily Gray.

**Mary Wallace**—Large bright pink and gold blooms, double, very strong grower.

**Mad. Caroline Testout, Climbing**—Immense globular flowers of the same beautiful shade of pink as seen in the bush sort.

**Mme. Edouard Herriot, Climbing**—Brilliant coral-red buds and flaming flowers of orange-red and salmon. Moderate, climbing growth, and a continuous and liberal bloomer.

**Paul's Lemon Pillar**—A very beautiful and entirely distinct showy large double, sulphur-yellow, perfectly formed flower that has proven hardy in this latitude. Fine as a pillar rose.

**Pauls Scarlet Climber**—By all means the most brilliant rose known in any class because of its clear, vivid, shining scarlet in large semi-double flowers. These flowers never turn blue but retain their intense coloring until petals fall. Cannot be too heartily recommended as essential in any garden.

**Sunburst, Climbing**—Golden yellow to orange, fragrant.

**Tausendschon**—A lovely shade of soft pink, free and vigorous; splendid foliage.

**Veilchenblau**—Flowers reddish lilac, changing to amethyst and steel-blue, in great panicles.

**Wm. Allen Richardson**—Rich coppery-yellow.



## RARE AND RECENTLY INTRODUCED ROSES

Price, 50c each, 3 for \$1.25, \$4.25 Dozen, Postpaid

**Aspirant Marcel Rouyer**—Long shapely bud that develops in a good sized, substantial double flower with heavy shell-like petals. Color, deep apricot, tinted red at center, reverse of petals shaded salmon-flesh with deep yellow veinings at the base.

**Austrian Copper** (*Rosa foetida bicolor*)—Species. Rather more slender in growth than most of this group, reaching 4 to 5 feet. The wiry stems are covered in early summer with garlands of single flowers, vivid copper-red on the inner surface of the petals and bright yellow on the outside. Spectacular and of great interest.

**Cuba** (H. T.)—As a bedding rose for brilliant mass effect we know of nothing that will equal this French introduction and although the flowers are semi-double, they possess a charm and brilliancy in color which is an entirely new tone in roses, a glorious bright vermilion-scarlet overlying an orange ground. This color combination is so intense that in full sunlight it glistens with an iridescent sparkle. A vigorous grower with dark green foliage which makes a splendid foil for the masses of richly colored blooms that it produces from spring to late fall.

**Dame Edith Helen**—A magnificent, fragrant, full-bodied new rose of many substantial petals which curl back prettily, holding steadily to one vivid pink color, and that the rare Rose du Barri shade.

**Doris Dickson**—Exquisitely formed medium-sized flowers, the base color of which is orange cream, but so heavily veined and pencilled with deep brilliant cherry that it is impossible to adequately describe the unique coloring. Growth vigorous, very free flowering, and extremely fragrant. A variety that is sure to become a favorite.

**Earl Haig**—A type rare among red roses, and so of obvious interest to the selective buyer. Outside of its fragrance, freedom and unfading cherry-crimson color, the thick rolling petalage, and permanent high-built center, fix its superiority over less compact varieties.

**Eldorado (Land of Gold)** (H. T.)—Of free flowering habit and fragrance, in color it is of the golden yellow that is peculiar to the climbing rose Marechal Niel.

**Etoile de France**—This famous French Rose probably needs no extended description, for it is already quite well and favorably known. Flowers globular, very full and lasting, borne on stiff stems, well above the foliage. Color deep velvety crimson of much richness and brilliancy. Remarkable for its strong growth and free blooming qualities.

**Etoile De Feu** (H. T.)—Very attractive large substantial globular buds expanding to large, cupped, full to centre flowers, of a rich flaming orange-pink with flame colored shadings, borne profusely throughout the season. The plant is of vigorous free habit.

**Evening Star** (H. T.)—Medium size bud, large, full, double, globular, slightly fragrant, golden yellow, shaded apricot, free bloomer, vigorous grower.

**Fontanelle** (H. T.)—One of the very largest hybrid teas, with remarkable size to the rounded petals. The color is a rich, clear yellow naturally deeper towards the center, particularly strong toned during cool weather. A stronger grower than most yellow varieties.

**Harrison Yellow** (A. B.)—One of the best yellow roses for cold climate. Its cloud of blossoms is a miracle of soft yellow in the spring.

**H. V. Machin**—A gorgeous flower of large size described by the introducers as the most magnificent exhibition variety they have introduced; in color an intensely black-grained scarlet-crimson, carried on rigid, sturdy stems with ideal foliage. A vigorous, strong growing Rose for the garden.

**Hugo Roller** (T.)—Flowers medium, well-shaped full double, moderately fragrant. Lemon-yellow, edged with crimson.

**E. G. Hill**—A new red rose of striking form and color. Long, perfectly formed buds opening to high centered, full double flowers of dazzling scarlet, shading to deeper red as they develop. Free flowering, vigorous.

**Irish Hope** (H. T.)—A splendid red with well-formed buds, broad petals opening to moderately full, fragrant flowers. The color is a rich rosy-crimson with maroon shadings. A free continuous bloomer.

**Jean C. N. Forestier (Pernet)**—Long, reddish carmine buds; flower carmine-lake, slightly tinted with orange and suffused with golden yellow. A very large, full, globular and extremely sweet-scented Rose. The plant is vigorous, and of branching habit.

**Joanna Hill** (H. T.)—A new yellow rose with an orange heart. Vigorous in growth, and blooms are borne singly on long, strong stems. The buds are large and long pointed. A vigorous habit of growth shows it will be of merit as a bedding rose.

**John Russell** (H. T.)—Rich velvety-crimson blooms, borne on upright stems. Flowers are very large and full and of good form. A rose for those who want something out of the ordinary.

**Lady Margaret Stewart**—Unquestionably one of the finest of the newer roses, with buds of deep sunflower yellow, heavily veined and splashed with orange-scarlet, sometimes entirely of the latter color, and opening to a firm full flower, the general color effect of which is cadmium orange. The flowers are quite fragrant and the leathery sage green foliage which covers the long rigid stems seems to be entirely disease-proof.

**Lulu**—Of particular value and beauty in bud form, they being abnormally long and substantial, with a swarthy orange red color. The flowers open up semi-double or single, brightened by an overflow of salmon-pink.

**Mabel Morse**—This clear bright yellow Rose of moderate size is sweetly perfumed. The color is retained better than in the older yellow varieties. Has superb glossy foliage, almost immune to disease. It is not a free bloomer, but each bloom is perfect when it comes.

**Mary Pickford** (H. T.)—A rose of the same type as Souv. de Claudius Pernet, but much deeper in color, being a rich golden orange, shading to yellow at the outer edge. The buds are daintily shaped, and are borne on a tall vigorous plant with rich dark glossy green foliage.

**Mme. Leon Pain**—Entirely distinct in color, a silvery-salmon, with deeper orange-yellow shaded center, the reverse of the petals being a salmon-pink; flowers large, full and well formed; very free-flowering and a splendid bedding variety.

**Mme. Second Weber**—A grand Rose in every way. It is a vigorous grower, free-flowering, large, perfectly formed, cup-shaped, fragrant flowers of marvelous beauty. In color it is of that soft tone of salmon-pink which appeals to everyone.

**Mrs. A. R. Barraclough** (H. T.)—Abundant, varnish-like foliage; vigorous upright growth blooming in great profusion. Large, pointed buds; flowers high centered, very lasting, bright watermelon pink with yellow base.

**Mrs. William C. Egan**—An extremely vigorous strong healthy grower, with long, pointed buds of absolutely perfect form, that develop into flowers of good shape. In color it is a two-tone pink, the reverse of the petals a soft light pink, the interior deep flesh color with a golden line at the base of the petals; the flowers are carried on long stiff stems, and last in good condition for an unusually long time, either cut or on the plant; an exceptionally free and continuous bloomer.

**Monsieur Julien Potin** (H. T.)—This rose, the latest production of M. Pernet-Ducher, who introduced Mme. Edouard Herriot and Souv. de Claudius Pernet, will probably be popularly known as "Golden Pernet." Those who have seen it pronounce it the most gorgeous and unfading yellow yet introduced. The buds are long and the fully double blooms are of beautiful form.

**Norman Lambert**—A distinct color combination that is novel. The outside of the petals is a deep chrome-yellow with a marginal color effect of brilliant orange-scarlet merging to an irregular zone of burnt orange, the inside salmon-orange suffused bronze, shading to yellow at the base. The flowers are of medium size and form, delightfully fragrant and free-flowering. A splendid bedder.



## RARE AND RECENTLY INTRODUCED ROSES

Price, 50c each; 3 for \$1.25; \$4.25 dozen, postpaid

**Patience (McGredy) (H. T.)**—One of the finest roses of very recent introduction. Its splendid long pointed buds are of a deep scarlet carmine opening to large fragrant double perfect blooms that shade from orange at the base of the petals to rich carmine at the edges, and extremely free flowering.

**President Herbert Hoover**—A charming many colored rose. Deep copper red buds of fine form, opening to a lovely blending of orange yellow, flame, vivid rose-pink, and scarlet. Buds of superb shape, flowers large and fragrant. A dazzling color effect to delight the eye.

**Queen Alexandra (Pernetiana)**—Face of petals deep vermilion with conspicuous orange-colored base. Reverse of petals old gold. An entirely new color combination and about the most striking thing to date.

**Rev. F. Page Roberts (H. T.)**—An excellent new addition to the yellow roses, quite different from any other variety. The inner face of the petals is a soft buff yellow, and the reverse a rich salmon, while the buds are often stained with copper red. The flowers are large, very double, and are at their best in the autumn. Plant is low and spreading, with mildew-proof foliage.

**Rose Marie (H. T.)**—Large globular bud, flowers very large, cupped double, moderately fragrant, clear rose pink, dark green foliage, growth vigorous, profuse bloomer.

**Sunstar (H. T.)**—Deep orange yellow veined and splashed crimson and vermilion; lovely buds.

**Shot Silk (H. T.)**—One of the most beautiful of Alex. Dickson & Son's introductions. Color orange-rose, overshot with golden-yellow and flushed soft rose, bud of beautiful shape, the open flowers cupped with reflexing outer petals, growth vigorous and free.

**Souvenir de Georges Pernet**—Oriental red, tips of petals touched with cochineal. Entire flower faintly shaded with yellow. Flowers very large and full on strong stout stems. Extremely hardy. One of Pernet Duchere's finest productions. Gold Medal Bagatelle Gardens, Paris.

**Talisman**—A splendid and very desirable new American Rose. The outside of the petals is bright golden yellow, shaded with pink. The inside is apricot, tinted gold and shaded rose-pink. A strong grower with glossy foliage.

## Standard or Tree Roses

We can supply the following varieties. See general list for descriptions. Each \$2.00.

**CANNOT BE SENT  
BY PARCEL POST**

Baby Crimson Rambler  
Baby Edith Cavell  
Columbia  
Constance  
Dorothy Perkins  
Duchess of Wellington  
Frau Karl Druschki  
J. B. Clarke  
General MacArthur  
Golden Emblem  
Hoosier Beauty  
Kaiserin Aug. Viktoria  
Los Angeles  
Mme. Butterfly  
Mme. Ed. Herriot  
Ophelia  
Ulrich Brunner



## BABY RAMBLER AND POLYANTHA ROSES

35c each; 3 for \$1.00; 12 for \$3.50, postpaid

A type of roses which grow only a foot or two high, bear large clusters of flowers possessing great lasting qualities, and are always in bloom. They are fine for massing in beds, for bordering large rose beds or planted singly on the lawn. Perfectly hardy.

**Cecil Brunner (The Fairy, or Sweetheart Rose)**—A Polyantha variety with dainty double little flowers of perfect form produced in many flowered, graceful sprays; color a soft rosy-pink on a rich creamy-white ground.

**Crimson Baby Rambler**—Has the same bright crimson color as the Climbing Crimson Rambler and blooms in clusters of 20 to 40 flowers at one time on plants of fair size. "Baby Rambler" is one of the best red roses for bedding.

**Ellen Poulsen**—The brilliant rose-pink flowers are much larger than the Baby Rambler type of Polyantha Roses. This variety is used by florists for forcing as it is attractive in color, sturdy in growth, and very floriferous. Beautiful as a low hedge or around evergreens.

**Erna Teschendorff**—Deep crimson and extremely attractive in contrast or when planted in masses.

**Greta Kluis**—A lovely shade of deep carmine-pink, passing to glowing carmine-red, on a plant of excellent habit and continuous-blooming quality. A variety we most heartily commend.

**Golden Salmon**—A most striking recent introduction, distinct and novel in color, a brilliant golden-orange scarlet, always in bloom and greatly admired.

**Ideal**—Ideal indeed for edging or for making a brilliant bed of rich, lustrous garnet, blooming continuously all summer and until frost. The color is retained remarkably well until the flowers drop.

**Jessie**—A dependable sort, producing continually bright cherry-crimson flowers which endure well on the plants. Particularly useful for massing because of its continuous-blooming habit.

**Katharina Zeimet**—Fragrant, double flowers of pure white in large clusters, producing decorative masses. The plant is compact, bushy, dwarf, furnished with good foliage, and is unusually hardy.

**Miss Edith Cavell**—By all means the best of its color, which is a brilliant scarlet held right through until the flowers drop off. They have no blue tendency. The plant is of vigorous and satisfactory blooming quality and the variety is notably good.

**Salmon Spray**—An interesting novelty from Australia. Rich salmon-pink flowers, 2 to 3 inches across, are produced continuously in great heads of ten to twenty, lasting a long time without discoloration. It makes a much stronger growth than almost any other Polyantha and reaches a height of 3 feet or more.

**Triomphe Orleanais**—Flowers large, for the class, of a bright cerise-red which is very lasting. A vigorous grower, bearing its blooms profusely in clusters.

**Baby Tausendschoen**—Dwarf Polyantha with its bountiful bouquets of creamy white saucer-shaped flowers. Every petal edged with rosy pink.



Moss Rose—Pink, red, white. 50c each, postpaid.



# BUTZER'S DAHLIAS—Selected Varieties

**Achievement (S. C.)**—Gold with bronze shading. In depth as well as diameter this flower is one of the largest grown easily reaching a size of from 9 to 12 inches across. Each 50c

**Alice Whittier (S. C.)**—One of the finest and largest of the newer prize-winners of a beautiful clear sulphur yellow. Each 50c

**Al Koran (F. D.)**—A very large free flowering golden yellow, of good formation, produced on good stems well above the foliage. Each 25c

**Alta Wheeler (I. D.)**—A very large bright scarlet, shading to orange with yellow at base of petals. Each 50c

**Amarillo Grande (F. D.)**—A new California variety that did especially well with us the past season. Flowers are of a beautiful light yellow and are produced freely. Each 35c

**Ambassador (C.)**—The color is a beautiful soft yellow at the center, with salmon, amber, and pink shadings, gradually deepening towards the tips. The blending of these colors captivates all. The flowers are of the largest size. Each 50c

**American Triumph (C.)**—The brightest shade of Oriental red without a trace of any other color, that has no tendency to fade. Each \$1.00

**Amun Ra or The Sun God (D.)**—The mammoth blooms are of gorgeous shades of copper and orange, shading to gold and amber, and deepening, in the large full center, to a rich dark, reddish bronze. Each 25c

**Ballet Girl (C.)**—An extra large deep flower; a mass of narrow incurved petals of pure orange, white with orange base and other variations of these colors on the same bush. Free flowering. Very attractive. Each 25c

**Barbara Redfern (I. D.)**—A mammoth flower of gold overlaid with blends of copper and old rose. Blooms are held erect on fine stems. Each 25c

**Bearclaws (C.)**—One of the largest Cactus Dahlias grown. An immense ruby red, tipped a decided tan shade, produced on excellent stems. Each 50c

**Black Jack (I. D.)**—One of the deepest maroon colored dahlias grown. Color is so dark it can almost be described as black. Flowers are immense and are carried well above the tall growing plants on long, strong stems. Each 50c

**Bob Pleuse (H. C.)**—A large wine-maroon, each petal attractively tipped with pure white. Fine stems and blooms very freely. Very showy in the garden. Each 25c

**Buckeye Bride (F. D.)**—A beautiful geranium pink of large size and strong healthy growth. Greatly resembles Jersey's Beauty in form of flower and habit of plant. Each \$1.00

**Champagne (F. D.)**—This giant decorative, aside from being one of the largest Dahlias grown, is very aptly described by its introducer as golden champagne with chamois shadings. Each 25c

**Champoege (F. D.)**—A new Oregon dahlia of wonderful beauty, so very unusual in its colorings that it is without a competitor. Color is waxy canary yellow at the center shading to bright peach red towards the outer edges of the petals, forming a perfect sunburst, the two shades being blended together as though painted by an artist. Back of petals pale silvery yellow. Each \$5.00

**Charles Stratton (D.)**—A grand exhibition flower that has been awarded many prizes for its large size and artistic coloring, and one of the most talked of Eastern varieties. In color a pale gold, shaded and tipped with old rose. Each 25c

**Cigarette (S. C.)**—This distinct and novel dahlia attracts more attention in our fields than any other variegated variety. In color it is creamy white, heavily edged with pomegranate red, but it varies greatly, no two flowers being exactly alike. The petals are long and inclined to roll, forming a large, deep, well-shaped flower of great substance on very long stems of best quality. Each 35c

**City of Trenton (F. D.)**—Blooms are very large and are held erect on long stiff stems well above the foliage. The front of the petals are a rich glowing tangerine orange while the reverse is a crushed strawberry red. The gracefully curled petals give a two-toned effect, creating an impression of whorls of flame radiating from a full glowing center. A superb flower of great beauty and highly recommended. Each 75c

**Clansman, The (F. D.)**—A new exhibition flower of a beautiful apricot orange, center darkening to Jasper pink, radiating a golden sheen that instantly attracts the eye. Each 50c

**Daddy Butler (S. C.)**—A wonderful cut flower and exhibition variety of large size of an unusual blending of colors, an American Beauty Rose shade, with the reverse of the twisted and rolled petals of a lighter tint forming a pretty color variation. Each 50c

**Derril W. Hart (I. D.)**—Color capucine yellow shading to grenadine red. In cool weather almost copper color. Each \$1.25

**Eagle Rock Gem (C.)**—An immense flower of the Ambassador type. In color it is maize yellow, shaded orient pink, and is considered to be the finest shaped, strong stemmed, Cactus Dahlia yet produced. Each \$2

**Earl Williams (I. D.)**—An exceptionally attractive fancy or variegated variety, the flowers are of largest size, of splendid formation of a brilliant crimson-scarlet color, each petal tipped with white; an early and free bloomer that continues in good shape to the end of the season. Each 50c

**Edna Ferber (S. C.)**—An immense dahlia with an exceptionally fine, stiff stem. Color a glistening coral shading to old gold at base of petals. Each 35c

**Eldorado (I. D.)**—Size, stem and color of this variety are of the best. Picture a comparatively low growing bush with immense golden-yellow blooms which stand up and look you in the face. Each 35c

**Elite Glory (F. D.)**—One of the greatest Dahlias ever originated and a most spectacular exhibition variety that creates a sensation wherever exhibited. The color is a radiant bright red and its effect of brilliance cannot be surpassed. Each 50c

**Elinor Vanderveer (F. D.)**—An incomparable dahlia of exquisite beauty and great size. The large blossoms of glowing, satiny rose-pink are of great depth and substance. Each 35c

**Elsie Daniels (I. D.)**—A beautiful flower of a pale violet orchid shade on the outer petals, with a center of purest white, making a magnificent combination of colors. Each 50c

**Emma Marie (S. C.)**—A favorite because of its pleasing shade of clear pink with a creamy white center and its combination of exhibition and commercial qualities not found in many Dahlias. Each 25c

**Fort Monmouth (I. D.)**—One of the giants of the Dahlia World. The predominating color is a rich crimson maroon, with shading of bluish violet at tips of petals. Each \$1.00

**Glory of Monmouth (F. D.)**—A large beautiful flower of Eosine pink, shading to strawberry pink at center of petals. Base of petals a light orange; a new combination in dahlias. Each 50c

**Golden Emblem (I. D.)**—A clear, golden yellow, without shading or traces of any other color. Each 50c

**Golden West (C.)**—A good deep rich yellow Cactus, heavily overlaid with orange. A good keeper and fine for commercial use. Each 35c

**Grace Curling (I. D.)**—A glorious dahlia of great size, imposing and beautiful in form and color. The latter is pure white at base and to half the petals, then changing to lilac-pink and rose. Each \$1.50

**Grizzly, The (I. D.)**—A deep, rich, crimson-maroon beauty, of immense size, and a prolific bloomer. The great shaggy blooms are held high above the foliage. Each 25c

**Ida Perkins (F. D.)**—This wonderful white won the Garden and Home Builder Achievement Medal at Boston and we consider it to be the best white introduced to date. Each 50c

**Inkyo (S. C.)**—A nearly black hybrid cactus that produces an abundance of very dark red incurved blooms. Easy to have stems three feet long on this dahlia. Each 50c



## BUTZER'S DAHLIAS—Selected Varieties

**Insulinde (I. D.)**—One of the most popular varieties both as a cut flower as well as for garden decoration. The blooms under ordinary cultivation are from 7 to 8 inches in diameter with just sufficient broad, long curled and twisted petals to form a perfect and graceful flower. These are held horizontally on the stem like a Chrysanthemum. Color a beautiful golden ochre, with salmon-red suffusion which deepens towards the center. **Each 35c**

**Ismal Patrol (I. D.)**—A gorgeously rich colored flower. A dark velvety crimson-scarlet tipped and flushed with pure gold. **Each 50c**

**Jane Cowl (I. D.)**—This massive decorative was the sensation of the New York Show of the American Dahlia Society, 1927. It is a large deep flower with as fine a coloring as anything in the Dahlia world. A glistening bronzy buff and old gold blending to a deeper shade toward center of flower, reverse of petals a pale flesh color, giving the flower as a whole, a warm glow. A stem of unusual strength holds the giant blooms erect over a plant of ideal growth. **Each 50c**

**Jersey's Beacon (F. D.)**—The blooms are simply immense held far above the foliage on long, strong stems. In color it is a Chinese-scarlet, with a paler reverse, giving it a two-toned effect. This variety was seen at all the Dahlia Shows the past season where it won many ribbons. **Each 35c**

**Jersey's Beauty (F. D.)**—Not only the finest, true pink, decorative variety yet introduced, but we are tempted to say the best all-round dahlia for any purpose yet introduced. **Each 25c**

**Jersey's Glory (F. D.)**—The flowers are large and of good form, well placed on the stem. The color is best described as a sparkling orange intermingled with yellow. **Each \$1.00**

**Jersey's Ideal (I. D.)**—The color of this beautiful variety is best described as lavender pink, although sometimes, it is nearer lavender. **Each 50c**

**Jersey's Jewel (F. D.)**—A beautiful mallow-pink. Very large, long petaled flowers, on fine stems. **Each 25c**

**Jersey's Masterpiece (I. D.)**—A bold and upstanding exhibition decorative of strawberry pink suffused gold at base of petals. **Each \$1.00**

**Jersey's Radiant (S. C.)**—Another Jersey that is a beauty. Large flowers of bitter-sweet orange, produced on long stiff stems well above the foliage. **Each 35c**

**Jersey's Sovereign (F. D.)**—A beautiful flower of a shade that is hard to describe. Salmon-orange is the nearest that we can come to it. **Each 35c**

**Judge Marean (F. D.)**—A large flower of glowing salmon-pink, iridescent-orange, yellow, and pure gold all blended together most beautifully, held erect on fine stems. **Each 35c**

**Kalif (S. C.)**—A beautiful, glowing scarlet of perfect hybrid cactus form. Habit of plant is all that can be desired. **Each 25c**

**Kathleen Norris (I. D.)**—Color a true rose pink, later deepening to mallow pink, but paler in the young central petals. A bloom of gigantic proportions, petals broad and overlapping, with twisted ends, full, tight center, and held erect on straight, stiff stems, above a sturdy plant with dark green foliage, which is insect proof. A great bloomer and an excellent keeper. A dahlia that stands right up. **Each \$2.00**

**Kemp's Violet Wonder (I. D.)**—The predominating color is a rich naphthaline violet, with an underlying tone of royal purple, with bluish lavender reverse. Flowers are of massive proportions, attaining to a diameter of 10 inches and over. **Each \$1.00**

**Margaret Masson (F. D.)**—A splendid variety of recent introduction that has made good. The flowers are very large, stems perfect, and the color a beautiful silvery rose-pink. Has excellent keeping qualities. **Each 25c**

**Margaret Woodrow Wilson (F. D.)**—An exhibition type of large size and great beauty. Color is opalescent pink. Face of petals is creamy white, reverse phlox-pink, the reflection from reverse of petals giving the whole flower an opalescent effect. **Each 50c**

**Mariposa (S. C.)**—Long, narrow, incurved petals. A delightful shade of true pink, intensified by a deeper center. One of the gigantic California introductions. **Each 35c**

**Marion Broomall (S. C.)**—One of the most artistic and wonderfully beautiful flowers it has ever been our pleasure to grow. A lovely two-toned flower of dark lavender pink on the outer petals with a center of purest white, and a dahlia that speaks to you all the way across the show room or garden. Stems are extra fine and plants are strong robust growers. **Each 75c**

**Marmion (I. D.)**—This flower is of such enormous size and great depth and looks so massive among the surrounding dahlias as to dwarf them all. It is a pure golden yellow with a bronze suffusion carried well above the foliage on long strong stems. **Each 50c**

**Mrs. Alfred B. Seal (I. D.)**—Undoubtedly the largest and finest pure, rich glowing old rose dahlia ever produced. Nothing we have ever seen can even remotely approach it. Such an unusual coloring—the softest, richest shade of absolutely pure, glowing old rose imaginable, without a trace of any other color. The flowers are huge, and of great depth, and substance, and are held proudly erect above a fine strong, tall bush, on long stiff stems. **Each \$1.50**

**Mrs. Carl Salbach (F. D.)**—A California variety that is seen at most of the Dahlia shows throughout the country and which has been accorded many honors. The flowers are of splendid decorative form, measuring fully nine inches across when well grown, of a beautiful shade of mallow pink, on great long stems from two to four feet long. Extra fine. **Each 35c**

**Mrs. Eleanor Martin (I. D.)**—Very large flowers, can be grown to 10 inches in diameter on stiff, 2-foot-long stems. The form is of best exhibition type and the coloring is unique, different from all others, a beautiful mulberry with golden suffusion. **Each 35c**

**Mrs. Ethel F. T. Smith (S. C.)**—An immense creamy white shading to lemon. The plant is tall and vigorous and is a generous producer of extra large blossoms. Stems are long and straight. A beauty. **Each 35c**

**Mrs. I. de Ver Warner (F. D.)**—A wonderful dahlia that has justly gained a great reputation. In color it is of that refined, pleasing mauve-pink that is usually referred to as an orchid coloring. **Each 35c**

**Nature's Masterpiece (I. D.)**—An immense bloom of gorgeous coloring that is hard to describe. A blending of old rose, cinnamon, and metallic bronze and suffused with mulberry. A rich combination and an odd flower. Stems are extra long and are all that could be desired. **Each 50c**

**Nopal (S. C.)**—A large nopal red hybrid cactus. This is one of those rare reds that delight the grower who is tired of growing flowers that sunfade. Artistic form, perfect center, and canelike stems are among its charms. **Each 50c**

**Oriental Beauty (S. C.)**—A magnificent new hybrid cactus that has to be seen to be appreciated. For sheer beauty and perfection of form, stem and foliage, this is the queen of dahlias. A clear brilliant rose pink, a tone deeper than Delice. Just a suggestion of a lighter tint at the tips accentuates the beautiful incurved form. Blooms 7 to 8 inches. **Each \$1.00**

**President Wilson (F. D.)**—A large and attractive variety on a good stem, that is a great favorite with everyone. In color it is a rich crimson with each petal distinctly tipped white. A very beautiful flower, fine for exhibition. **Each 50c**

**Pride of California (F. D.)**—A large red decorative that cannot be beaten. Very large flowers held on extra good stems, and an exceptionally good keeper. **Each 35c**

**Pride of San Francisco (F. D.)**—Large blooms of a brilliant golden salmon pink held erect on stout stiff stems. Plants are of compact growth and flowers are extra fine keepers. Should be in every garden. **Each 50c**

**Robert Treat (F. D.)**—This beautiful new Eastern introduction has been one of the great prize winners the past two seasons all over the country. The immense bloom is a clear American Beauty rose color, of great substance, and is held erect on fine stems. One of the very best. **Each 50c**

**Rookwood (I. D.)**—A remarkably distinct dahlia, unusually free-flowering, coming into bloom early and producing 100 per cent perfect flowers to the end of the season. The form is absolutely perfect, composed of peculiarly curled or twisted petals, in color a pleasing shade of cerise-rose which does not vary during the entire season. **Each 50c**

**Rory O'Moore (I. D.)**—A beautiful bloom of deep maroon, with each petal tipped white. Flower is large and grows on a perfectly stiff stem and blooms freely all season. Flowers are regular, always showing the two colors. **Each 35c**

**Runa (F. D.)**—A charming new orchid pink. For the abundance of its large blooms and lovely color few dahlias surpass Runa. Its long stems and unusual keeping qualities make it an especially desirable cut flower. **Each 50c**

Discount of 20% on all Dahlia orders of \$3.00 and over, except on collections these are net as listed



## DAHLIAS—Continued

**Santa Anna (I. D.)**—A variety from California of a beautiful salmon rose suffused with gold. The huge blooms are held well above a medium height plant on fine stems and are very freely produced. Each 50c

**Sir John Carling (I. D.)**—Has all the good qualities that you would expect in a dahlia. Size, stem, color and insect resisting foliage. Color is a rich royal purple of an entirely new shade which we have never seen in a dahlia. Each \$1.50

**Thomas A. Edison (F. D.)**—This gorgeous rich royal purple decorative selected and named by permission of the famous electrical wizard. Each \$1.50

**Trentonian (F. D.)**—A giant decorative of outstanding merit of a distinct and appealing color. A wonderful shading of old gold, amber, and coppery bronze, with a center of reddish bronze, forming a flower of marvelous brilliancy. Each 35c

### POMPON DAHLIAS

Pompons are the midgets of the dahlia family, producing very small compact flowers, like miniature snowballs, averaging about 1½ inches in diameter. They are invaluable for cut flowers owing to their fine stems and long keeping qualities, and their abundance of blooms. All are dwarf growers averaging about 2½ feet in height and are especially suitable to plant as a border in front of the taller growing, large flowering varieties.

#### 12 BEAUTIFUL POMPON DAHLIAS WORTH \$3, SENT POSTPAID FOR \$2

**DAHLIA COLLECTION 12**—We grow over 50 varieties of pompons but do not have space to list them all, therefore are offering our surplus bulbs in this collection. These bulbs will all be labeled with their correct names, and no two alike, chosen with regard to color, however they must be entirely our own selection.

**Uncle Tom (F. D.)**—If you want the nearest to black of any dahlia that grows, you should have this one. An aptly named flower with an unusually rich and impressive color, being a dark velvety garnet heavily overcast with black, and as rich as the finest velvet in texture. Each 35c

**Valentino (F. D.)**—A new variety that we can highly recommend for its great beauty. The color is true salmon pink shading to cream at center. Flower has good size and attractive form and is held proudly erect on a long, strong stem. Each \$1.00

**World, The (F. D.)**—A mammoth flower of unusually rich coloring, being a deep, rosy magenta overlaid garnet with silver shadings on edges of petals. A rich and beautiful combination of colors. Each \$1.00

#### OUR BIG VALUE COLLECTION

##### No. 10

10 Choice Dahlias, Worth \$5 or more,  
sent postpaid for \$1.50

**DAHLIA COLLECTION 10**—Since it is impossible for us to gauge the amount of sales upon any variety in advance, we often have a surplus of dahlias in very good sorts. In this collection we offer a selection of bulbs which are untagged, but are chosen with regard to color, and no two alike, and for those who are not particular to have the names, they will give fine satisfaction. These bulbs are all of large flowering, double varieties, and no other selection than our own can be permitted. Price per box of 10 good strong bulbs, in 10 varieties, \$1.25, postpaid.

#### COLLECTION No. 4

##### Our Selection of

4 Choice Dahlias for 75c, postpaid

## DAHLIAS—The Different Forms

In describing the types of dahlias listed we are using the new classifications of the American Dahlia Society as follows:

**Formal Decorative**, abbreviated (F. D.)—Fully double flowers, floral rays generally broad, either pointed or round at tips, with outer floral rays tending to recurve and central floral rays tending to be cupped; all floral rays in a somewhat regular arrangement.

**Informal Decorative**, abbreviated (I. D.)—Fully double flowers, floral rays generally long, twisted or pointed and usually irregular in arrangement.

**Incurved Cactus**, abbreviated (C.)—Fully double flowers with the margins of the majority of the floral rays revolute for one-half or more of their length. The floral rays tending to curve toward the center of the flower.

**Recurved and Straight Cactus**, abbreviated (Str. C.)—Fully double flowers with the margins of the majority of the floral rays revolute for one-half of their length or more, the floral rays being recurved or straight.

**Semi Cactus**, abbreviated (S. C.)—Formerly called Hybrid Cactus. Fully double flowers with the margin of the majority of the floral rays revolute for less than one-half of their length.

**Peony**, abbreviated (P.)—Open centered flowers, with not more than four rows of ray florets, regardless of form or number of florets, with the addition of smaller curled or twisted floral rays around the disc.

**Dahlia Culture**—Dahlias will grow to perfection in any good garden soil and should be planted where they will get plenty of sun although they will do very well if planted in a location that is partially shaded.

Holes should be dug about three feet apart each way and the bulbs planted 5 to 6 inches deep, laying them flat in the bottom of the hole. Under no circumstances should they be stood on end. Cover bulb with not more than 2 inches of finely pulverized soil at first, and as plant makes growth hole should be gradually filled in.

Plants should be watered freely when necessary and ground should be kept well cultivated until plants begin to bloom, when deep tillage should cease and the surface only should be lightly stirred from then on. Stakes should be driven into the ground and plants kept well tied to them so as to keep them from being broken down by wind and heavy rains.

Give your plants a top dressing about August 1st. Scatter broadcast over the ground not closer than six inches nor more than 18 inches from the stalk and rake in, to every ten hills, 1 lb. muriate of potash, 1½ lbs. raw bone flour, 1 lb. blood meal. The use of peat moss broadcast and mixed well into the top soil is an advantage on heavy soil to open it up and on light soil it will conserve moisture and hold fertilizer.

**Dividing Clumps**—It requires a little judgment to divide dahlia roots properly, as some varieties are more compact than others. The eyes will be found around the stem or crown, and never on the root itself, like a potato. Hence a root without a piece of the crown is worthless. A division consisting of a good root with one good eye is all that is necessary; more are of no advantage. Large clumps should never be planted whole.

Discount of 20% on all Dahlia orders of \$3.00 and over, except on collections these are net as listed



## GLADIOLUS

Gladioli are deservedly great favorites with the enthusiastic gardener. In most climates, by planting at intervals, blooms may be had over a period of many months, and nothing is finer, either for cut flower work or garden decoration, than a bed of well-grown Gladioli.

### A Selected List of Choice Named Varieties

The following is a selected list representing all types and colors. The hybridists have succeeded in producing a thing of great beauty in the modern Gladiolus, combining length of spike with beautiful symmetry and size of the individual blooms.

- Aida** (Pfitzer)—Very early large dark blue, extra fine. Each 10c; doz. \$1.00
- Albatros** (Pfitzer)—A very tall spike and large flowers of the purest white. Each 15c; doz. \$1.50
- Apricot Glow** (Palmer)—Fine soft apricot, many wide open blooms. Each 5c; doz. 50c
- Belinde** (Pfitzer)—Very beautiful large cream yellow, also very early. Each 8c; doz. 80c
- Bengal Tiger** (Pratt)—A fine red with dark markings, originated by Dr. Pratt of Portland. A truly home product. Each 5c; doz. 50c
- Berty Snow** (Mair)—Large pink lavender, one of the best. Each 7c; doz. 70c
- Betty Nuthall** (Salbach)—Very tall coral with orange throat. Magnificent flower and a good propagator. Each 10c; doz. \$1.00
- Blue Jay** (Groff)—Lobelia blue spotted white. Very odd and beautiful. Each 5c; doz. 50c
- Byron L. Smith** (Kunderd)—One of the very best; most refined lavender-pink on white ground; extra fine as a cut flower. Color equal to a very choice Cattleya Orchid. Each 5c; doz. 50c; 100 \$3.75
- Carmen Sylva** (Prestgard)—Almost pure white, medium tall, ideal cut flower. Each 5c; doz. 50c
- Carmelita** (Diener)—Smoky pink, large flower. Very lovely. Each 6c; doz. 60c
- Catherine Coleman** (Coleman)—Geranium pink, extra tall. Each 8c; doz. 80c
- Commander Koehl** (Pfitzer)—One of Pfitzer's best, large dark scarlet. Each 25c; 3 for 60c; doz. \$2.25
- Coryphee** (Pfitzer)—The most beautiful soft rose pink Glad in existence and many blooms open. Each 15c; doz. \$1.50
- Cowee's Scarlet Wonder** (Cowee)—Large brilliant red. Each 5c; doz. 50c
- Crinkles** (Kunderd)—Dark pink, very heavily ruffled. Each 5c; doz. 50c
- Dr. F. E. Bennett** (Diener)—Deep peach red. One of the most popular Glads in cultivation. Each 5c; doz. 50c; 100 \$3.75
- Dr. Moody** (Kinyon)—Fine early lavender, many open. Each 10c; doz. \$1.00
- Duchess of York** (Dames)—Very deep purplish blue with many flowers open at a time. Each 5c; doz. 50c
- Elf** (Diener)—Lemon yellow buds, white when open with yellow lip. Each 5c; doz. 50c
- Evelyn Kirtland** (Austin)—A wonderfully graceful flower of bright coral pink; a great favorite. Each 5c; doz. 50c; 100 \$3.75
- Fern Kyle** (Kunderd)—Fine large pale cream, heavily ruffled. Each 5c; doz. 50c
- Gay Hussar** (Salbach)—Rich salmon orange to orange yellow throat. Each 5c; doz. 50c; 100 \$3.75
- Geraldine Farrar** (Diener)—Pale lavender violet, with silvery sheen. Each 10c; doz. \$1.00
- Gertrude Errey** (Errey)—Shell pink, blending to almost white in the throat, very lovely. Each 5c; doz. 50c
- Giant Nymph** (Coleman)—Tall light pink, extra fine. Each 5c; doz. 50c; 100 \$3.75
- Gladis Plath** (Diener)—Mallow purple, deeper throat, extra good. Each 5c; doz. 50c
- Glendale** (Davis)—Tall, graceful purple, a prize winner. Each 5c; doz. 50c; 100 \$3.75
- Gloriana** (Betscher)—Rich salmon pink with creamy throat, many flowers open, rapid propagator, extra fine. Prim. Each 6c; doz. 60c
- Gold Eagle** (Austin)—Deep rich yellow, very early and a good forcing variety. Each 5c; doz. 50c
- Golden Dream** (Groff)—One of the best, deep clear yellow, very tall, with five or six flowers open at a time. Each 6c; doz. 60c
- Golden Measure** (Kelway)—Pure golden yellow, one of the finest of this color. Each 5c; doz. 50c; 100 \$3.75
- Heavenly Blue** (Pfitzer)—Aniline blue, strong grower, one of the best light blues. Each 10c; doz. \$1.00
- Helen Wills** (Salbach)—Ivory white, good substance, many open, one spike a bouquet. Each 6c; doz. 60c
- H. C. Goehl** (Fischer)—Clear white, maroon blotch, striking. Each 8c; doz. 80c
- Hinemoa** (Doney)—Smoky rose with yellow throat, a prize winning novelty. Each 20c; 3 for 50c; doz. \$1.90
- Ida** (Betscher)—Pink with dark throat, one of the best blotched varieties; vigor without coarseness. Each 5c; doz. 50c
- Joerg's White** (Joerg)—Very large, a really worth while white. Each 10c; doz. \$1.00
- John T. Pirie** (Kunderd)—Mahogany brown, darker throat, many open at a time. A good one. Each 6c; doz. 60c
- Longfellow** (Decorah)—Excellent pink, perfect spike, a dainty fine thing. Each 5c; doz. 50c; 100 \$3.75
- Loyalty** (Austin)—A new pure deep yellow with darker throat. Each 10c; doz. \$1.00
- Marmora** (Errey)—A truly remarkable Glad. Large flower of lavender, overlaid silver grey with petunia blotch. Many open. Each 15c; doz. \$1.50
- Mme. Mounet Sully** (Lemoine)—Ivory white with carmine blotch, large flower. Many open. Each 8c; doz. 80c
- Mary Pickford** (Kunderd)—A wonderful flower and spike of delicate creamy white flowers, with sulphur yellow blotch in throat. Each 5c; doz. 50c
- Minuet** (Coleman)—Clear lavender. One of the best of this color. Each 10c; doz. \$1.00
- Mother Macree** (Stevens)—Unusual tall lavender orange, overcast in grey. Each 20c; doz. \$2.00
- Mrs. F. C. Peters** (Fischer)—Extra fine tall rose lilac with blossoms that are blotched with crimson. Large. Each 5c; doz. 50c; 100 \$3.75
- Mrs. Leon Douglas** (Diener)—Begonia rose, striped with scarlet, magnificent spikes of mammoth flowers. Each 5c; doz. 50c; 100 \$3.75
- Mrs. P. W. Sisson** (Coleman)—Clear cameo pink, a prize winner, many open. Each 8c; doz. 75c
- Mrs. Von Konynenburg** (Holland)—Good light blue, excellent spike. Each 10c; doz. \$1.00
- Mr. W. H. Phipps** (Diener)—Iridescent pink to rose salmon, many flowers open. Each 6c; doz. 60c; 100 \$4
- Nancy Hanks** (Salbach)—Peach red to orange pink, good grower and propagator and stands heat well. Each 5c; doz. 50c
- Orange Queen** (European)—A very beautiful brilliant orange Prim. Each 5c; doz. 50c
- Orchid Lady** (Spencer)—A deep early lavender, large flowers. Each 10c; doz. \$1.00
- Our Selection** (Australian)—Deep salmon tinged purple-lavender, blotched throat. Many open. Each 20c; doz. \$2.00
- Paul Pfitzer** (Pfitzer)—Fine spike of velvety purple, very good. Each 5c; doz. 50c
- Pfitzer's Triumph** (Pfitzer)—Very large salmon orange. Attracts attention wherever shown. Each 10c; doz. \$1.00
- Primrose Princess** (Salbach)—Extra large, good primrose yellow. Each 6c; doz. 60c
- Purple Glory** (Kunderd)—Gigantic blooms of a deep maroon red, well spaced on tall spikes. A wonderful exhibition variety. Each 6c; doz. 60c
- Red Glory** (Piper)—Very large velvety red, a sport of Purple Glory and a good one. Each 20c; doz. \$2.00
- Richard Diener** (Diener)—Geranium pink, one of the very best. Each 5c; doz. 50c
- Rita Beck** (Fischer)—Large, La France pink. Each 8c; doz. 80c
- Rose Ash** (Diener)—Soft light rose with grey blue and having soft cream blotches on two lower petals, stalks four to five feet tall. Each 5c; doz. 50c
- Sans Pareil** (Vilmorin)—A French variety of great merit, deep apricot pink, with white throat, well placed on tall spike, a grand variety. Each 15c; doz. \$1.50
- Scarlano** (Kunderd)—Ruffled, a brilliant rich orange red. Each 5c; doz. 50c
- Senorita** (Salbach)—Clear wide open orange, lower petals bright orange yellow. Each 10c; doz. \$1.00



## GLADIOLUS—Continued

**Sunnymede** (Fischer)—Light orange with red throat markings. The best in this color. Each 5c; doz. 50c

**Superba** (Coleman)—Carmine scarlet, large flowered and early. Each 8c; doz. 75c

**Sweet Lavender** (Coleman)—Very early lavender, darker throat, fine. Each 5c; doz. 50c

**The Orchid** (Sprague)—Lavender pink, lacinated and ruffled. Each 5c; doz. 50c

**Troubadour** (Pfitzer)—Striking deep violet, strong grower. Each 10c; doz. \$1.00

**Veilchenblau** (European)—Violet blue, tall spike, extra good. Each 15c; doz. \$1.50

**White Butterfly** (Kunderd)—A fine pure white Prim. Each 5c; doz. 50c

Gladiolus flowers last longer when cut than most any other flowers, and develop in water to a greater perfection than if left on the plant. Any rich, light garden soil will grow Gladioli if properly worked in preparation and exposed to the benefit of full sunlight. Set bulbs 2 to 4 inches deep and 2 inches apart in the drills, single rows 12 inches and double rows 18 inches apart. Beds do well planted 4 to 6 inches apart, each way.

## BUTZER'S "ROSE CITY"

Mixture of  
Large Flowered **Gladiolus**

All Extra Selected Large Bulbs

No Second Size

We have assembled an assortment of distinct choice named varieties into a carefully distributed mixture. This collection is entirely our own, in which we take a reasonable pride.

By MAIL, 40c per doz.; \$2.50 per 100.

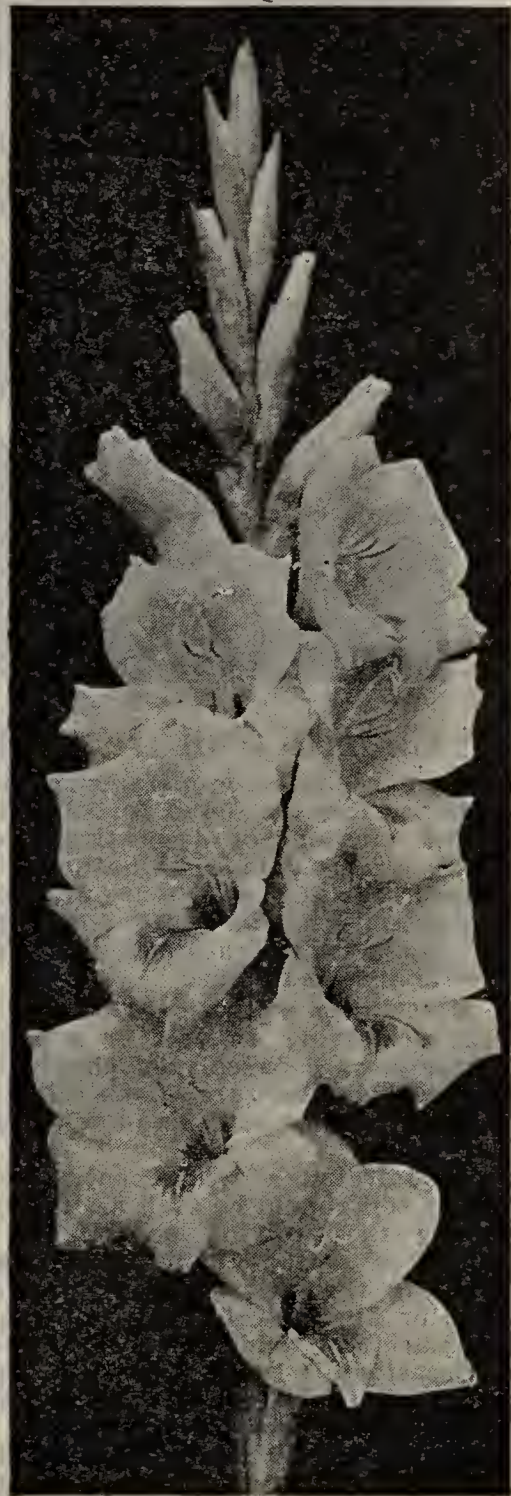
By EXPRESS, \$2.00 per 100, \$15.00 per 1000.

250 at the 1000 rate.

**BUTZER'S Dollar Assortment**  
*of Gladiolus*

**80 ASSORTED BULBS FOR \$1**

These are Medium or Flowering size bulbs of the finest named varieties only. Each assortment put up separately by hand containing from 1 to 5 bulbs each of 20 different varieties, 60 bulbs in all, but not labeled. Not a cheap mixture, but a collection of the best, priced so that you can afford to plant them liberally, and still have something really choice. All will bloom splendidly for anyone, and will make extra large bulbs for next year. We guarantee them to please you. If not, return them next fall and your money will be cheerfully refunded. We send cultural directions with each order.



## GLADIOLUS

All Gladiolus postpaid at prices quoted (except as noted)

**NOTE**—The bulbs which we offer are all first size and should bloom one hundred per cent. We would like to hear from you regarding your success.

Gladioli are the most popular of all the summer flowering bulbs and rightfully so, they have so many excellent qualities and uses.

In diversity, beauty and magnificence, no other flower which can be so easily grown and with which success is so nearly certain, can at all times compare with the Gladiolus. The range of colorings and markings is practically unlimited and especially since the introduction of the thousands of new seedlings may the claim be made that the varieties are numberless. As a cut flower for vases, within the scope of the amateur no other flowers equal the Gladiolus in striking and effective appearance, and, in lasting quality, but few, if any, compare. If the spikes are cut when only the lower flowers are open they will last for a week, the upper buds opening when kept in fresh water as well or better than when left to open outdoors.

**CULTURE**—Plant in full exposure to the sun. A light, moist soil one year from sod is the most desirable, but the Gladiolus thrives well in nearly all soils, the exception being a stiff, clayey one. While soil should be well enriched, avoid using fresh manure; use only that which is well rotted. Much the better way is to use land that was well manured the previous year, using none at the time of planting, but giving afterward one or two applications of commercial fertilizer. If possible, avoid planting in the same place for three years.

If space is limited, bulbs may be planted in double rows, four inches between the rows and two inches apart in the row; they are, however, more generally planted in single rows about one foot apart, two, three or four inches deep, according to size. The first planting may be made by the middle of April and successive ones till the first of June, but for the late planting, bulbs should be reserved.



## BUTZER'S HARDY LILIES

### Lilies are New Delights for Every Garden



### General Culture of Hardy Lilies

No garden is complete without Lilies and suitable varieties may be found for almost any situation. The fullest measure of decorative effect is secured when Lilies are used in combination with other plants and shrubs. Striking effects are produced by planting them among tall-growing perennials, in front of large shrubs, or among dwarf shrubbery, so that the blossoms may rise above its foliage.

Most Lilies will succeed in any light sandy or loamy soil, preferring an acid or a neutral soil. Plenty of leafmold or decayed peat should be added to the soil. An excellent mixture is one-third loam, one-third leafmold or peat or both, and one-third sand and good garden soil.

Good drainage is an essential point. The preparation of the soil should be such as to provide ample moisture during the growing period, but without having an excess of water during the dormant period. When planting the bulbs it is well to surround them with sand or fine gravel. This helps to drain away surplus moisture and tends to repel worms.

Occasionally some Lilies do not appear above the ground the first year after planting, but come up strong and vigorous the second season.

In cutting Lilies the lower part of the stem should be left, so that the bulb may complete its growth. To cut it to the ground injures and may destroy the bulb. Lilies should be protected from the frost by a light mulch of a covering of leaves, or granulated peat moss that is now so popular for this work.

Plant a few varieties and enjoy their beauty.

### Lilium Auratum

**The Gold-Banded Lily of Japan**—The most beautiful variety of all the lily family; should be in every garden. Flowers white, dotted crimson, with a clear golden band running through the center of each petal; very fragrant. A splendid lily for pots, or for planting out in the shrub or plant borders. Its large flowers and delicious perfume make it one of the most valuable of all. It is perfectly hardy with ordinary protection and suitable soil. Large bulbs, each 25c; doz., \$2.75, postpaid

### Lilium Auratum Platyphyllum

(Macranthum)

This is without a question one of the most wonderful lilies in cultivation. The leaves are very long and broad and the stems attain a height varying from 7 to 10 feet. The flowers are similar in color to Auratum, but much larger. The golden band is not so pronounced and the dots are white; the petals more overlapping and of greater substance. The giant of the lily family.

Each 30c; doz., \$3.00, postpaid

### Tenuifolium

**The lovely Coral Lily of Siberia**—A great beauty. The brightest of all lilies. Grows 20 inches high, with finely cut foliage, slender stems and beautifully shaded coral-red flowers. Blooms very early.

Each 20c; doz. \$2.00, postpaid

### Elegans

The number of forms and varieties is legion, varying in color from pale lemon-yellow to rich orange-brown, embracing various tints of orange to almost red and from soft apricot to approaching crimson. They also vary in flowering season. Stem-roots; plant 8 to 9 inches deep in sunny situation. June-July flowering.

Each 15c, 2 for 25c; doz. \$1.00

**Hansoni**—A very important and beautiful Lily that is easy to grow. It is perfectly hardy and very desirable for border planting, improving from year to year. One clump will often grow to enormous size, producing dozens of flower spikes, all crowned with clusters of finely reflexed blossoms 2 inches across. The color is a warm orange, faintly spotted brown. Each cluster will contain as many as twelve individual blossoms. It will grow from 3 to 5 feet tall and prefers a little shade. A very early bloomer (about June 25).

Each 35c; doz. \$3.00

### Henryi

**(The Yellow Speciosum)**—A new, rare and very beautiful lily from China. It is very hardy, and without doubt one of the best lilies for garden culture. The flower stalks, 3 to 5 feet high, carry 5 to 15 large flowers each, rich apricot-yellow, lightly spotted with brown. The shape and size of the flowers has suggested the name "Yellow Speciosum."

Each 30c; doz., \$3.00

### Regale

The most vigorous and satisfactory Lily that has ever come under our observation. Perfectly hardy, of medium height, often bearing five to eight large handsome blooms. The color is white, the outer petals shaded in varying amount with pink, the throat suffused primrose-yellow, and fragrant.

Each 20c; doz., \$2.00, postpaid  
Special small but blooming size bulbs at 10c each, \$1.00 per doz.

### Speciosum Album

Pure white, flowers free.

Large bulbs, each, 30c; doz., \$3.00

### Speciosum Rubrum

**The Lance-Leaved Lily**—Thousands being grown each year in greenhouses. The typical form is white, flushed pink, and heavily spotted with carmine. The stem is about four feet high and has fresh, green, lance-shaped leaves, and the frilly flowers face downward and carelessly roll back their petals, while the stamens and pistil curl way out. A very beautiful lily, perfectly hardy, very seldom diseased, and a late August and early September bloomer. Plant the bulbs eight to ten inches deep.

Large bulbs, each 25c; doz. \$2.75

### Pardalinum (Leopard or Panther Lily)

A late June flowering lily of rich scarlet and yellow, spotted rich brown from the Sierra Nevada Mountains of California. One to thirty flowers on a 3-6 foot stem.

Each 25c; doz. \$2.00

### Umbellatum Dauricum

**(Candlestick Lily)**—A lily of easy culture with three to five flowers ranging from deepest red through all shades of crimson, rose, yellow, buff and apricot. In June. Height 2 to 3 feet.

Each 25c; doz. \$2.50

### Umbellatum Erectum

Although the Umbellatum class through years of hybridization contains innumerable named varieties, at present we deem this one, Erectum, deserving a place in every garden. The flowers are orange, and slightly or not at all spotted.

Each 25c; doz. \$2.50

### Lily of the Valley

**Extra Select Pips**—One of the most satisfactory and charming Spring flowering plants, producing in profusion its delicate bell-shaped, delightfully fragrant, white flowers.

Doz. 50c; 100 \$3.00

**Yellow Calla (Elliottiana)**—New and beautiful variety; same habit of growth as ordinary white Calla; flowers same size and shape, rich, clear, lustrous golden-yellow; foliage dark green, with translucent creamy spots, strong bulbs.

Each 35c, postpaid



# LAWN GRASS

## SUGGESTIONS FOR MAKING AND CARE OF LAWNS

It must not be supposed that by sowing grass seeds at any season of the year in soil of any character, and in any state of cultivation or neglect, a durable, attractive turf is to be formed. From the beginning the lawn is both troublesome and expensive, and even when obtained, it is like liberty, preserved only by "eternal vigilance." The coarser natural grasses and weeds will take possession unless kept down, and wherever, from any cause, a bare spot is formed it will rapidly enlarge unless repaired.

A good foundation must be secured, or the rest of the work will be entirely wasted, and too great care cannot be exercised, since the roots must be able to penetrate quite 18 inches in order to keep the grasses growing through the scorching days of July, August and September, if the ground is not already very rich, give a liberal application of fertilizer, avoiding the use of stable manure, as it invariably contains seeds of weeds and noxious grasses. Bone meal never produces the "burned" appearance so often noticed after the use of ammoniated fertilizers. Harrow or rake the surface to the finest possible condition and roll until all elevations and depressions have been removed.

Rake the seeds in lightly, following with a roller of medium weight, a firmly rolled surface being absolutely necessary if the ground be dry; small areas may readily be packed firm by the back of a spade. Sowings made in the Fall, from the first of September to the middle of October, are most successful, but if deferred until Spring, sowings may be made in February, March and April.

When the grass is well set, about 4 inches high, it should be cut with a sickle or mown with the machine set to avoid cutting too closely, 2 inches at least being left above the root. After then a cutting every ten days and an occasional rolling will make the grass finer, strengthen the turf and keep all rank-growing weeds in check. In the heat of Summer the mower should be arranged so as to leave ample protection to the roots. An occasional saturation is much better than the daily sprinkling commonly thought beneficial. If bare spots appear they must be patched up by breaking the ground about 10 inches deep, smoothing the surface and raking in double the usual allowance of seed. To maintain the vigor and color of the grass a light top dressing of bone meal two or three times a year is advisable. Liberal applications of Grozit Brand sheep manure are very beneficial and will give your lawn that rich, velvety appearance that is so much admired by everyone.

For quick results apply a light dressing of Vigoro or Sulphate of Ammonia.

## BUTZER'S FANCY LAWN GRASS SEED

It is the easiest thing in the world to grow a beautiful lawn. There is nothing that gives quicker growth and a thicker sod than Butzer's Fancy Lawn Grass Mixture. It produces a perfect and enduring lawn of luxuriant richness, with closely interwoven, firm, elastic turf, and is often ready for mowing four weeks from sowing. This Lawn Grass is composed of a combination of various native and foreign, fine-leaved, deep-rooting grasses of interweaving habit, that flourish under our varied conditions, soils and climates, growing during different seasons of the year, so that a deep green, smooth and velvety sward, free from clumps, is maintained from Spring to Winter, year after year, and without burning brown in Summer.

Whether you want to seed a small grass plot in your yard or a lawn of more pretentious size, you should use Butzer's Fancy Lawn Grass Seed. Sow 1 lb. to 400 square feet. Price per lb. 50c, postpaid

## BUTZER'S SHADY LAWN GRASS SEED

For sowing on the north side of buildings, between houses, and for securing a lawn under large shade trees

In many lawns there are places which seem as if nothing can be grown; some are shaded by large trees and others by buildings. For these locations we have offered for some time our Butzer's Shady Lawn Grass Seed, which readily meets the desired requirement. Price per lb. 60c, postpaid

## CREEPING BENT GRASS

(*Agrostis Stolonifera*.) Distinctive on account of its compact, creeping, rooting stems. Of rapid growth and spreading habit, forming a strong, durable turf. Good for lawns and putting greens because of its fine texture. If sown alone, use 50 lbs. to the acre. Write for price.

## SEASIDE BENT

The long creeping stems and spreading habit of this splendid grass make it ideal for Putting Greens; it makes a lasting turf that withstands hard usage.

The leaves are fine and it develops a dense growth, making it valuable. Write for price.

## CHEWING FESCUE

A low-growing grass, fine leaved, forms a close turf that prevents ingress of weeds, permanent in all kinds of soils, even the lightest and driest; unexcelled for lawns and golf courses when properly grown. Write for price.

**Crested Dog Tail**—(*Cynoduras cristatus*)—A valuable addition for lawn grasses which require close cutting and an adaptability to resist tramping, as in golf links, etc.; about 21 pounds to the bushel. Write for price.

**Canadian Blue Grass**—(*Poa compressa*)—Recommended in all pasture mixtures on dry soil; thrives well on clay or hard trodden and poor soil. Sow 28 pounds per acre. Write for price.

**Kentucky Blue Grass**—(*Poa pratensis*)—As is well known, this is the grass for which the State of Kentucky is famous. Although it is preeminently a pasture grass, it is frequently used in making lawns. When Kentucky Blue Grass is used for lawn purposes, the seed is generally sown at the rate of 30 to 40 lbs. to the acre. If White Dutch Clover is desired, this seed should be added to the rate of about ½ pound to every 15 pounds of grass seed. Write for price.

**Red, or Creeping Fescue** (*Festuca rubra*.)—Red Fescue is adapted to about the same general climatic conditions as Blue Grass and can be grown as far northward as any agriculture is possible. Its leaves are bright green and the plant does not grow in tufts but creeps by underground stems, so that one plant may eventually cover a circle two to four feet in diameter. It is used mainly as a lawn plant. On sandy or gravelly soil it makes exquisite lawns. It will withstand more shade than most grasses and is therefore valuable for shady lawns. Write for price.

**Rough Stalked Meadow Grass** (*Poa Trivialis*)—A grass which deserves much greater popularity and should be better known as it is an ideal shade grass in the Northern half of the United States if it can have enough moisture. This grass is a perennial closely related to Kentucky Blue Grass but somewhat finer and softer. It has a splendid apple-green color and is a creeper. Sow in Fall or Spring, at rate of 1 lb. to every 300 square feet. Write for price.

**Red Top** (*Agrostis Vulgaris*)—A good perennial grass for permanent lawns and pastures. Does best on moist marshy land. If not overflow land, it is advisable to mix it with Meadow Fescue, Orchard Grass or Alsike Clover. Sow hulled seed 14 lbs. to the acre.

**Wood Meadow Grass**—(*Poa nemoralis*)—In the Northern and Middle States this is the best of all lawn grasses for deep shade. Very hardy and a perennial. Its creeping roots establish a lasting, even and deep green turf. On dry rich soil it makes good pasturage and hay, but is usually too expensive to sow. Sow in spring, 30 to 35 lbs. per acre. (14 lbs. to the bushel.) Write for price.

All of these grass seeds are governed in value by regular market quotations, and their values are subject to frequent changes, quite as much so as grain; and for this reason it is impossible for me to quote prices here which will hold good for the season. But would be pleased to give quotations on any seeds you may need.



## GRASS AND FIELD SEEDS

Our Grass Seeds are purchased by us from the best possible source for reliability. Owing to the frequent fluctuation of the market, we cannot quote prices. Write us for prices.

|                     |                 |
|---------------------|-----------------|
| Aifalfa, Grimm      | Red Top         |
| Alfalfa, Dry Land   | Reed Canary     |
| Clover, Ladino      | Rye Grass       |
| Clover, White       | Timothy         |
| Clover, Medium Red  | Meadow Fescue   |
| Clover, Mammoth Red | Sheep Fescue    |
| Clover, Alsike      | Mesquite        |
| Clover, Esparsette  | Millet          |
| Clover, Sweet       | Tall Meadow Oat |
| Canadian Blue Grass | Wood Meadow     |
| Kentucky Blue Grass | Poa Bulbosa     |
| Creeping Bent       | Pasture Mixture |
| Crested Dogstail    | Speltz          |
| Chewing Fescue      | Vetches         |
| Bromus Inermis      | Rye             |
| Orchard Grass       | Oats            |

### We do not sell WHEAT or BARLEY for SEED

#### THERE IS A DIFFERENCE IN GRASS SEEDS

Even if farmers have a surplus of cheaper, local grown seed. There is as much difference between poorly cleaned, country run seed and thoroughly re-cleaned graded seed as between other raw and finished products.

The difference in quality is far greater than the difference in price of thoroughly cleaned, bright color, plump, high in purity and germination, and uniform in quality.



ORCHARD GRASS.



RED TOP GRASS.

#### BRUSH PASTURE MIXTURE

The modern farmer and stockman does not dig grubs and stumps from brush lands; the expense of muscle and money is too great to warrant the cost. After the wood from such lands has been cut and sold, he seeds the field to tame grasses and clovers which soon take possession of the soil, when it is pastured with sheep, horses and other stock. During the time of pasturing the roots and stumps will decay and thus the brush lands are made profitable from the beginning at very low cost.

Write for price

#### REED CANARY (*Phalaris arundinacea*)

Reed Canary Grass—On some farms there will be found a piece of low, wet land, that is too wet for Red Top or other grasses. For such a soil, there is nothing better that we know of than Reed Canary Grass. This remarkable grass sends its long, twining roots deep into the soil and brings forth a grass from four to eight feet tall. If you have wet soils you should try some of this wonderful grass seed and see what it will do for you.

Write for price

#### BROMUS INERMIS

(Awnless Brome Grass)

Bromus Inermis—(Awnless Brome Grass.) This is a native of the Russian Steppes and thus is suited to a cold climate and dry soil. It is strongly recommended. It is good for pasture, and in some places for meadow—where the conditions are favorable. Brome Grass makes a dense growth of leaves which start down close to the ground. Animals like it well for pasture. Sheep and cattle like it the best of any grass.

Write for price

#### TALL MEADOW OAT GRASS (*Avena Elatior*)

Tall Meadow Oat Grass (*Avena Elatior*)—A magnificent grass, of rapid, luxuriant growth, growing on rich soil by June 15 to a height of 4 feet. Better than Timothy in the South. Can be cut three times and does well if sown alone. Tall Oat Grass vegetates with great luxuriance. It is early and productive and affords a plentiful aftermath. It is found most beneficial when retained by a close state of feeding. It makes a good hay; is natural to sandy loams, but thrives on strong tenacious clays. It is a very hardy grass and endures much heat and cold. It possesses the advantage of early, quick and late growth, tillers well and is admirably calculated for a pasture grass.

Write for price

#### RAPE

Dwarf Essex for Sowing—This is by far the best variety of Rape for forage. It is very valuable not only for green feeding purposes, but is of importance to the fruit grower as a cover-crop, and it affords excellent pasturage for hogs and sheep late in the season. The plant of Dwarf Essex resembles at first the Ruta Baga, but the tops become very large and leafy.

Lb. 25c, postpaid. For larger quantities, write for prices.

#### SUNFLOWER

Large Russian—This has very large single heads borne at the top of a single unbranched stalk usually, and with much more and larger seed than the common sorts. It is used extensively for feeding poultry. The plant often grows 10 feet high. Sow seed as soon as ground is fit for planting corn, in rows 3 to 4 feet apart and 10 inches apart in the row. Cultivate same as corn. When the seed is ripe and hard, cut off the heads and pile loosely in any airy dry place where they will soon cure so as to be threshed out and cleaned. This variety will yield 1,000 pounds or more of seed per acre. Some species are planted largely in the flower garden for ornament. (See Flower Seeds under *Helianthus*.)

Pkt. 5c; 1 oz. 10c; 1 lb. 25c, postpaid; for larger quantities inquire for prices.

#### WHITE SEED OATS

White Seed Oats—We always try to have a selected re-cleaned stock of No. 1 White Seed Oats, which we can supply at market prices. Write for samples and prices on the quantity you require.

#### GRAY WINTER OATS

Gray Winter Oats—This Oat is planted extensively throughout the Northwest as a Fall or Winter Oat. Is well and favorably known, being a good yielder, and the Oats are large and plump. Write for price.

# STIMUGERM

## LEGUME INOCULATION



# FRUIT TREE DEPARTMENT

OUR SHIPPING SEASON for the above is from November 1 to April 1. Some seasons May 1, although it is too late for best results. We advise late fall or early spring planting while stock is dormant.

## APPLES

|                            |        |        |
|----------------------------|--------|--------|
|                            | Each   | 10     |
| 2-year-old .....           | \$0.50 | \$4.00 |
| 1-year-old, 3 to 4 ft..... | .40    | 3.00   |
| 1-year-old, 4 to 6 ft..... | .30    | 2.50   |

### SUMMER VARIETIES

#### EARLY HARVEST

Medium size; bright straw color; tender and fine; good for table and cooking. July.

#### GRAVENSTEIN

Large, beautifully dashed with deep red and orange; tender and crisp, with a highly aromatic flavor; tree very vigorous. August.

#### RED JUNE

Medium, oblong, deep red, excellent for table use; one of the best early apples.

#### RED ASTRACHAN

Large, deep crimson, flesh white, moderately juicy, with an agreeable rich acid flavor; very productive. August.

#### YELLOW TRANSPARENT

Medium size, roundish, slightly conical; skin pale yellow; flesh tender, juicy, sub-acid; good; bears at an early age. July.

### AUTUMN VARIETIES

#### ALEXANDER

Large, conical; greenish-yellow, streaked with orange and bright red in the sun; flesh yellowish white of medium quality; very hardy and productive. October.

#### DUCHESS OF OLDENBURG

Large, yellow streaked with red; tree vigorous and very productive; juicy, with rich sub-acid flavor. September.

#### FAMEUSE

(Snow Apple.) Medium, roundish, greenish yellow, with streaks of deep red on sunny side; flesh remarkably white; fine dessert fruit. October to December.

#### MAIDEN'S BLUSH

Medium, well shaped; yellow, with a very distinct red cheek on the sunny side; flesh white; pleasant sub-acid flavor; excellent for table or cooking. September.

#### RED BEITIGHEIMER

Very large; cream colored, flushed with red; fair quality. September.

#### WEALTHY

Medium, whitish yellow, shaded with deep red; flesh white, tender and juicy. October.

#### WAXEN

Fruit medium; skin pale yellow, flesh crisp, tender, juicy, sharp acid; one of the best for drying. October.

### WINTER VARIETIES

#### ARKANSAS BLACK

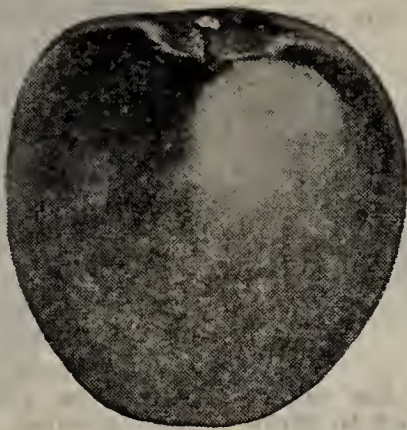
Medium, round; yellow where not covered with a beautiful dark maroon, approaching black; flesh firm, fine grained, juicy; a long keeper. December to April.

#### BALDWIN

Large, rounded; deep, bright red; very productive; crisp, fine flavor; one of the best and most popular winter apples. November to February.

#### BEN DAVIS

Medium to large; yellowish, overspread with red; flesh white, tender, juicy; pleasant sub-acid; thrifty, upright grower. October to May.



## APPLES

### WINTER VARIETIES

#### DELICIOUS

Fruit large, nearly covered with brilliant dark red, flesh fine grained, crisp and melting, juicy with a delightful aroma; of very highest quality. A splendid keeper and shipper. A regular annual bearer. November.

#### BISMARCK

The apple novelty; everyone should try it; tree of short, stocky growth, thick, healthy foliage; fruit large, handsome, yellowish sometimes shaded red cheek; flesh tender, pleasantly sub-acid; seldom failing to bear when two years old. September.

#### GRIMES GOLDEN

Very popular. Rich golden yellow; flesh tender, juicy and rich. Tree hardy and vigorous, bearing young. November to December.

#### JONATHAN

Tree vigorous, long lived and an early bearer. Fruit beautiful red and oblong; fine quality. Valuable as a pollenizer with Spitzenberg and Newtown. October to January.

#### KING

Large and handsome, striped red and yellow; tree vigorous and productive. November to December. Good mountainous apple.

#### LADY APPLE

A dainty, small flat apple; red cheek. Good Christmas fruit. Tree upright and vigorous.

#### MAMMOTH BLACK TWIG

Very large; bright red, pleasant sub-acid; fine late keeper; fine, vigorous tree. November to January.

#### McINTOSH RED

A seedling of the Fameuse; bright red, flesh white, very tender and delicious. Long lived and very productive. Adapted to Montana. November.

#### NORTHERN SPY

Large, round, greenish yellow, stripes of purplish red; flesh white, juicy, brisk sub-acid. Requires good soil. December.

#### ORTLEY, OR WHITE BELLEFLOWER

White fleshed, fine grained conical fruit of superior flavor; one of the best. December to April.

#### ROME BEAUTY

Large, yellow, shaded with bright red; juicy and sub-acid; fine market sort; good bearer. November to February.

#### SPITZENBERG

Large, oblong; yellowish ground with broken stripes of bright red; flesh yellowish, juicy, delicious rich flavor. November to March.

#### STAYMAN WINESAP

A seedling of the Winesap. Yellow striped with red. Flesh firm, crisp, juicy and very tender and rich, sub-acid. A drought resister; a profitable market variety. January, May.

#### WAGENER

Good size; deep red in the sun; flesh firm and fine grained; good keeper; sub-acid; excellent filler; requires thinning. October to December.

#### WINTER BANANA

Fancy market fruit; pale yellow with pink blush. Has a delightful aroma and suggestive banana flavor. Not a good shipper. November.

#### YELLOW NEWTOWN PIPPIN

Large; skin smooth, golden yellow; flesh firm, crisp, juicy; one of the standard varieties for export. December to May.



CRAB APPLES

Nice stocky trees, each 25c; per 10 \$2.25

For preserving, jellies and ornament. All are unequaled for cider or vinegar. The trees are noted for their hardiness and vigor and usually bear the second season after planting.

HYSLOP

Large, deep crimson; tree hardy, fine for the West. November, January.

RED SIBERIAN

Yellow with scarlet cheek. Bears young and abundantly. September.

TRANSCENDENT

Very large, pleasant flavor and good for cider; yellow striped red. Very productive. Adapted to Montana. September.

WHITNEY

Tree thrifty, upright grower. Fruits large, striped; flesh firm and juicy. Very good. August.

APRICOTS

Their fruit ripens between Cherries and Peaches. The trees, as hardy as the Peach.

|                   | Each   | Per 10 | 100     |
|-------------------|--------|--------|---------|
| 4 to 5 feet ..... | \$0.75 | \$6.50 | \$50.00 |
| 3 to 4 feet ..... | .50    | 4.50   | 40.00   |

BLLENHEIM

Deep orange, sometimes blushed; tender, rich and juicy. Tree vigorous. Good for Pacific Coast. Last of June.

LEWIS

The new Lewis Apricot is the largest, strongest growing, best yielding, best flavored apricot we have ever seen, and is perfectly hardy. Grown extensively, in the "Goodnoe Hills" district. July, August.

MOORPARK

Very large, yellowish green, brownish red on the sunny side; flesh bright orange; fine for canning and drying; freestone. July, August.

ROYAL

Above medium size; sweet, rich, juicy; good dryer and canner. July.

TILTON

Large; rich color, high flavor; very productive; similar to Royal; later. July.

PRUNES

|                   | Each   | Per 10 | 100     |
|-------------------|--------|--------|---------|
| 3 to 4 feet ..... | \$0.50 | \$3.00 | \$20.00 |
| 4 to 6 feet ..... | .50    | 4.00   | 30.00   |

Italian (Fallenberg)—Medium, oval tapering at both ends; dark purple; flesh greenish yellow; separates freely from the stone; best for drying. Most popular.

Improved Petite—Medium size, egg-shaped; violet purple; sweet, rich and sugary; very productive; good fresh and for drying.

Silver—Very large.

Hungarian—Very large, dark red.

Giant—The largest, dark crimson.

New Standard—(Burbank Production)—The trees are enormous and never failing bearers, and good, healthy growers. Well grown fruits measure four and a half inches around one way by nearly six inches the long way. Skin purple, with a heavy blue bloom; flesh amber or honey yellow, fine grained, juicy, yet firmer than most other drying prunes, very sweet and a perfect freestone.



CHERRIES

A Fruit That Makes Profits for Growers

A good cherry orchard is one of the most profitable ventures a farmer can undertake. With but little care, the trees are very thrifty and prolific, bearing large crops annually.

The compact shapeliness of Cherry trees, their glossy foliage, and spring glory of clustered blossoms, gives them ornamental value even in the lawn.

The trees are naturally hardy, succeeding best on sandy or gravelly loam, well drained. Avoid low or wet ground.

Sweet varieties grow more rapidly and make larger pyramidal trees. Set trees 18 to 20 feet apart. The Sour varieties are dwarf and bushy, bear earlier, and are more largely planted. Set trees 15 to 18 feet apart.

|                   | Each   | Per 10 | Per 100       |
|-------------------|--------|--------|---------------|
| 3 to 4 feet ..... | \$0.50 | \$4.00 | Special price |
| 4 to 6 feet ..... | .75    | 5.00   | Special price |

SWEET CHERRIES

Two-year-old 75c

BING

Originated in Oregon from seed of Black Republican; fruit large, dark brown or black; very fine; late; good shipping variety. July.

BLACK REPUBLICAN (Lewelling)

Seedling, raised by Seth Lewelling, of Oregon; large size, black, sweet, with purplish flesh; late and a good shipper. June.

BLACK TARTARIAN

Largest size. Flesh purple. Crisp, tender and juicy. Late May.

LAMBERT

Fruit of largest size and of fine quality; color deep, rich red; flesh firm and of fine flavor; a fine market variety; ripens two weeks later than Royal Ann. Mid-July.

ROYAL ANN

(Napoleon Bigarreau.)—A magnificent cherry of the largest size; pale yellow, becoming amber in the shade; richly dotted and spotted with deep red, and with a bright red cheek; flesh very firm, juicy and sweet; tree a rapid grower and immense bearer. July 1.

SOUR CHERRIES

EARLY RICHMOND (Kentish)

Medium, dark red, melting, juicy, sprightly, rich acid, best. A dependable cropper. June.

ENGLISH MORELLO

Fair size, blackish red, rich acid, juicy, good. Aug.

LARGE MONTMORENCY

Large, red, productive, ten days later than Early Richmond. Late June.

LATE DUKE

Large, light red. July.

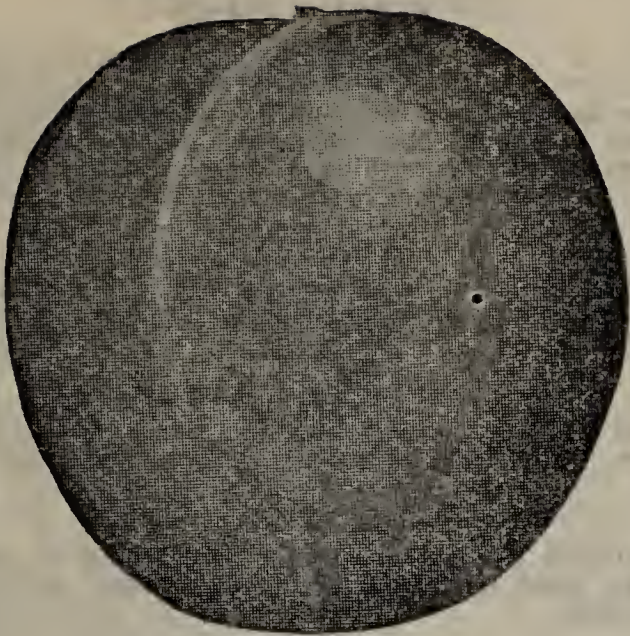
MAY DUKE

Large, red, juicy, rich; its acidity pleasantly tempered to the advantage of sensitive teeth. June.

MAJOR FRANCIS (Ox Heart)

Similar to the May Duke, though a little more spicy in flavor. Ripens earlier than May Duke.





## PEACHES

|                                | Each   | Per 10 |
|--------------------------------|--------|--------|
| First Grade, 4 to 6 feet ..... | \$0.50 | \$4.00 |
| First Grade, 3 to 4 feet ..... | .40    | 3.00   |

Write for special price if larger quantities are wanted.

### CHAMPION

Large, cream white, slightly blushed. Tree hardy; should be in every orchard. July. Freestone.

### EARLY ALEXANDER

One of the largest and best of the extra early varieties. Almost freestone. July.

### EARLY CHARLOTTE

Hardy, medium early, excellent flavor; originated in Oregon. Freestone.

### EARLY CRAWFORD

Very large, yellow, with red cheek; flesh sweet and excellent; our most popular peach for table and canning; freestone. August.

### EARLY ELBERTA

Ripens about a week earlier than Elberta; otherwise the same or a trifle better.

### ELBERTA

Very large, bright yellow, red cheek; flesh yellow; juicy, sweet; regular bearer; fruit very showy and perfect; freestone. Late July.

### J. H. HALE

A valuable table, shipping and drying peach. Smooth skin, almost fuzzless. Very firm. Ships almost like an apple. Yellow freestone; flesh tender, excellent quality. Larger than the Elberta and ripening about the same period.

### LATE CRAWFORD

Very large, roundish; yellow, with dark red cheeks; flesh deep yellow, juicy and melting; flavor rich and excellent; very popular; valuable for canning and drying; freestone.

### HALE'S EARLY

Early, free; extra quality; hardy; prolific.

### HEATH'S CLING

One of the best of the clings. Very large; creamy white, with slight red; flesh white. September.

### MAYFLOWER

Beautiful red all over; extremely early; tree hardy and healthy. Should be in every home and commercial orchard. Last of June. Freestone.

### MUIR

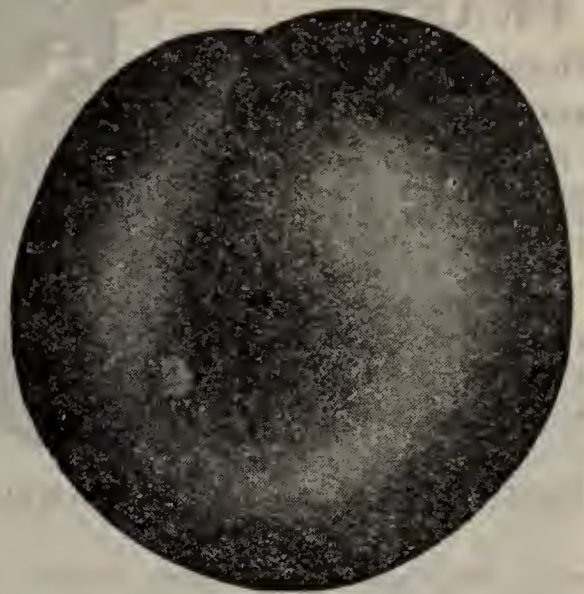
Large, pale yellow; very firm and sweet; best for drying; freestone. August.

### SALWAY

Creamy yellow, red cheek; flesh deep yellow, red at the pit; rich and sweet; a standard late peach, growing more and more in favor with orchardists; freestone. Late September.

### TUSCAN CLING

Very large; yellow, blushed red. Vigorous and strong grower. July and August.



## PLUMS

|                   | Each   | Per 10 |
|-------------------|--------|--------|
| 4 to 5 feet ..... | \$0.50 | \$4.50 |
| 3 to 4 feet ..... | .40    | 3.50   |

### ABUNDANCE

Fruit large and beautiful; bright cherry; flesh light yellow; juicy, tender, sweet; productive; freestone. June.

### BRADSHAW

Reddish purple, juicy and pleasant; adheres partially to the stone. July.

### BURBANK

Medium; globular; cherry red, with lilac bloom; flesh yellow; bears very young. Late June.

### DAMSON

Small, oval, bluish purple; flesh melting, rather tart. Tree very fruitful and hardy. August.

### DAMSON—SHROPSHIRE

Medium size, dark purple; very firm; flesh greenish, juicy and rich. Vigorous. Late September.

### GREEN GAGE

Small round; flesh pale green, melting and juicy; Freestone. Mid-July.

### PEACH

Very large; skin brownish red, slightly coarse grained, but juicy; freestone; very popular. July.

### PRINLEW

A valuable new variety, produced by H. A. Lewis. A heavy and sure cropper. Plums of large size; skin yellow, overspread with bright red when fully ripe; a handsome looking plum and the rich, golden flesh is firm, but juicy; fine grained and most delicious of all, either raw or cooked. It's good as a peach. Stands handling and shipping well. Ripe in August. If you only have room for one plum, plant a Prinlew.

### SATSUMA (Blood Plum)

Quite popular, large, dark red from skin to pit, which is small, firm and juicy; tree productive. Early July.

## NECTARINES

The Nectarine has a smooth skin like the plum. It is like the peach in other ways and requires the same culture. Its pungent, sprightly flavor is reminding of both, but with an added deliciousness all its own.

Selected Trees 75c Each

### BOSTON

Large, deep yellow, bright flush; flesh yellow; very rich and luscious. Best for Oregon. August 1.

### EARLY VIOLET

Medium; skin pale, shaded violet; flesh white; good. July.



## PEARS

### Delicious for Eating and Canning

The Pear tree will grow on almost any good soil, but thrives best in a rather heavy clay or loam.

|                  | Each   | Per 10 |
|------------------|--------|--------|
| 4 to 5 feet..... | \$0.50 | \$6.00 |
| 3 to 4 feet..... | .40    | 3.00   |
| 2-year-old ..... | .75    | 6.50   |



### SUMMER AND AUTMUN VARIETIES

#### BARTLETT

Large; skin thin, clear, lemon yellow, with soft blush on the sunny side; flesh white, buttery, very juicy and highly flavored; the best summer pear in existence. August, September.

#### BEURRE BOSC

Large, beautiful, russety; highly flavored; fine for shipping. September.

#### BEURRE CLAIRGEAU

Large, yellow, shaded with orange and crimson; covered with russet dots; flesh yellowish, buttery, juicy. September.

#### BEURRE D'ANJOU

Large, handsome, fine flavor; tree vigorous; heavy bearer; keeps till Christmas. September.

#### COMICE

A splendid commercial variety, being of fine size; good appearance; ships well. October.

#### FALL BUTTER

A favorite fall pear; yellow, sweet and juicy. September.

#### SECKEL

Rich and highly flavored; its highly concentrated, spicy, honey flavor is unequaled; skin brownish green, russet brown cheek; flesh whitish, buttery and melting. September. October.

### WINTER VARIETIES

#### P. BARRY

Fine keeper. Very large; juicy, fine grained, yellow. December, March.

#### WINTER BARTLETT

This fine pear originated in Eugene, Oregon. Fruit large, closely resembling the famous Bartlett in shape and appearance, but ripening considerably later; flavor almost identical with the Bartlett; is undoubtedly one of the few pears of recent introduction of real merit.

#### WINTER NELIS

Medium; skin yellowish green, dotted with gray russet; flesh yellowish white; fine grained, of a rich saccharine, aromatic flavor.

## PEAT MOSS

### NATURE'S SOIL IMPROVER

The ideal all year rose mulch. Large bale of 8 bushels.

PEAT Makes Poor Soil Good and Good Soil Better.

## QUINCES

Fine for Sauce.

The Quince crop is usually reliable, and in good market demand. The fruits are quite fragrant, and the trees and bloom highly ornamental.

First Grade, 4 to 6 feet, each 75c

#### CHAMPION

Large, yellow; flesh cooks very tender; flavor is most delicious; more productive than the Orange. October.

#### APPLE OR ORANGE

Well known standard variety; early; large, golden yellow; good for preserving or flavoring. September.

#### MEECH

Beautiful yellow, but rather small; not so marketable as some larger sorts. Tree a young and unfailing bearer.

#### PINEAPPLE

Flavor is suggestive of the pineapple; the fruit resembles the Orange quince; making superior jelly; can be eaten raw and has a most exquisite and delicious flavor, not equaled by any other quince. September.

## MULBERRIES

#### NEW AMERICAN

Equal to Downing in all respects, and a much hardier tree. Vigorous grower, very productive; the best variety for fruit; ripe from middle June to Sept. 6 to 7 ft., each \$1.50

#### RUSSIAN

Very hardy, vigorous grower; valuable for feeding silk worms, for hedges, fences and waste food supply in poultry yards. Fruit of small size, varies in color from white to black.

6 to 8 ft., each \$1.00

## GRAPES

The grape is the easiest of all fruits to grow. The plants take little room, they thrive despite neglect and every year they produce their wealth of beautiful, health-giving fruit. With its roots in any old nook you can lead it away in any direction to provide a grateful shade for the pump, or for a restful seat, a border for a walk or climbing on the wall or house—East, West, North or South, on hill or in valley, on poor soil or rich, the grapes grows, thrives, bears; it never disappoints. Plant a few vines or a large vineyard—make your own grape juice—jams, marmalades, jelly; and have plenty to eat fresh from your own vines.

One-year-old, each 20c, postpaid

#### CAMPBELL'S EARLY

Berries large, nearly round, black, with light purple bloom; flesh rather firm but tender; quality rich, sweet, slightly vinous; a strong and vigorous grower. August.

#### CONCORD

Large, black grape; bunches compact; berries round, sweet and pleasant. August.

#### DELAWARE

One of the finest of our native grapes; grows freely and is perfectly hardy; ripens early; berries small, light red. August.

#### MOORE'S EARLY

Bunch medium; berry large, resembling Concord, but more pulp and is earlier.

#### NIAGARA

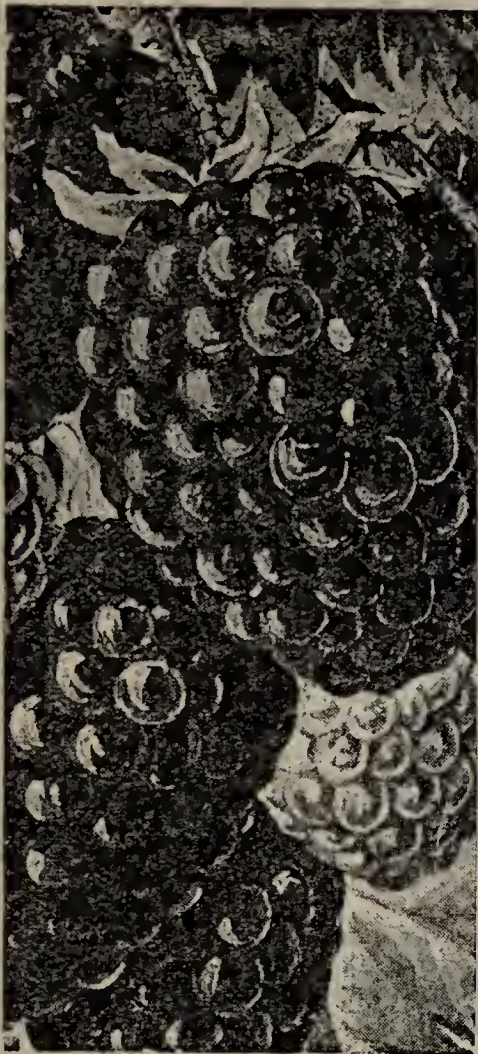
Bunch medium; berry large, roundish, uniform; skin thin but tough; pale yellow; flesh tender and sweet; vine vigorous and productive; one of the best white grapes. September.

#### WORDEN

Bunch very large and compact; berry large, black; an improved Concord. Late August.



YOUNGBERRY



Youngberry—Actual Size

Said to be a cross between the Loganberry and the Dewberry. An exceptionally fine flavored, very productive berry. Bears early and commands the highest market prices. The fruit colors well and is exceptionally sweet and large. Color, jet black. Ten plants of this variety will make a row eighty feet long, which will produce an astonishing amount of the finest berries you ever saw. They will be a delight to you and your friends.

They are very strong growers and should be trellised. A very simple trellis, consisting of two wires (the lower one 2½ feet from the ground and the upper wire about 4 feet) is all that is required. Plant eight feet apart in rows

seven feet across. About 800 plants per acre.  
Prices—Each, 20c; 10, \$1.75; 25, \$3.00; 50, \$5.00; 100, \$10.00.

RED RASPBERRIES

Cuthbert ("Queen of the Market.")—A remarkably strong, hardy variety; standing the northern winter and southern summers equal to any. Very large, conical berries, so firm they can be shipped hundreds of miles by rail in good condition; flavor is sweet, rich and luscious. The leading market variety for main crop.  
Marlboro—Very large and earlier than Cuthbert; beautiful, bright scarlet; good quality; hardy and productive.

Special low prices by the thousand. Write

|        |        |        |        |
|--------|--------|--------|--------|
|        | Each   | Per 10 | 100    |
| 1 year | \$0.15 | \$0.75 | \$3.00 |

Red Raspberry—Everbearing

La France is a rapid, vigorous grower. The berries are firm, twice the size of most; beautiful color, fragrant and delicious in flavor all season long.

|        |                                      |
|--------|--------------------------------------|
| 1 year | Each \$0.15; Per 10 \$1.25, Postpaid |
|--------|--------------------------------------|

St. Regis Raspberry—Everbearing

Ripen with earliest and continue on young canes until October. Berries bright crimson, large size, rich, sugary with full raspberry flavor. Firm, meaty, a good shipper. Wonderfully prolific. Canes stocky, of strong growth, abundance of dark green leathery foliage.

Each 15c; per 10, \$1.25, postpaid

YELLOW RASPBERRIES

Golden Queen—A beautiful, large golden yellow berry, seedling of the Cuthbert.

Price, each 15c; per 10 \$1.25, postpaid

Black Raspberries

Cumberland—A healthy, vigorous grower, throwing up stout, stocky, well branched canes that produce immense crops. Fruit very profitable; large, firm, quality about same as Gregg, keeps and ships as well as any of the blacks. Mid-season.

Gregg—Of good size, fine quality, very productive and hardy. Takes same position among black caps as Cuthbert among the red sorts.

|   |        |        |         |
|---|--------|--------|---------|
| Plum Farmer—Large, black, hardy and productive. One of the very best. | Each   | Per 10 | 100     |
| 2 years   | \$0.25 | \$2.25 | \$20.00 |
| 1 year  | .20    | 1.50   | 12.50   |

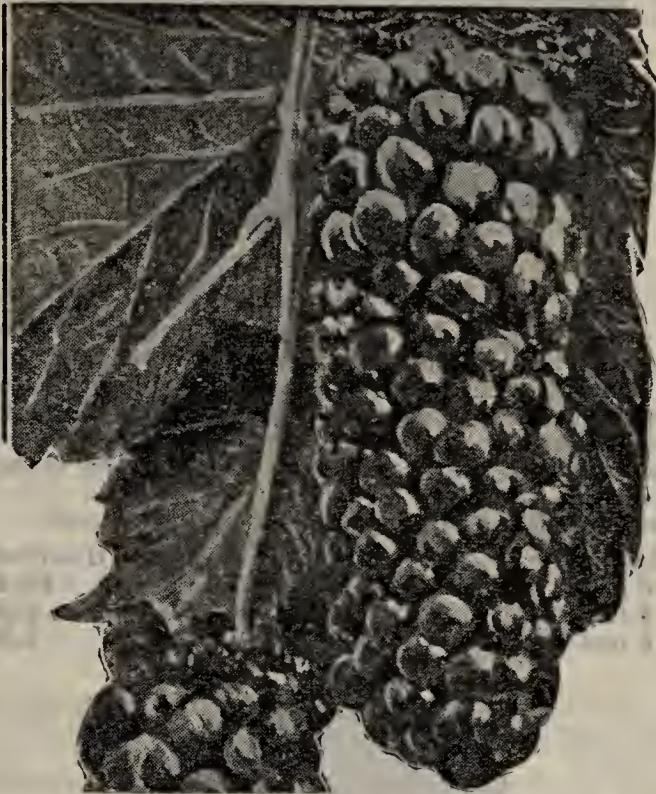
BLACKBERRIES

Lawton—Fruit large, very productive, well and favorably known; Oregon's most popular kind.

Evergreen—An Oregon introduction; beautiful lacinated foliage, which it retains all winter; berries long, black, sweet, rich and delicious; ripens from July to November.

Himalaya Giant—An exceedingly strong, rampant grower of a trailing nature; everbearing; an enormous yielder. The berries are large, juicy, coreless, sweet and firm, with a delicious aromatic flavor.

|       |        |        |         |
|-------|--------|--------|---------|
|       | Each   | Per 10 | 100     |
| Price | \$0.20 | \$1.50 | \$10.00 |



CORY THORNLESS BLACKBERRY

The berries often measure 2½ inches in length, have a small core and are almost seedless. The flavor is like the wild berry, but they are richer and sweeter than other blackberries, yet are acid enough to make the finest of jelly. No thorns, thereby easier and quicker picked, more productive, more profitable; of trailing nature. Plant eight feet apart in rows seven feet across.

Prices Cory Thornless Blackberry

|                  |        |
|------------------|--------|
| Each, postpaid   | \$0.20 |
| Per 10, prepaid  | 1.75   |
| Per 100, prepaid | 15.00  |

GOOSEBERRIES

Each 25c

OREGON CHAMPION

Berries very large, pale green color; very sweet and fine for table use and pies; bush strong, not very thorny; very prolific bearer; most popular sort we have.

DEWBERRY

Lucretia—Fruit ripens between the raspberry and blackberry. Berries large, handsome, sweet and luscious; trailing vines. STRONG PLANTS. Each 25c; per doz. \$2.50; 100, \$12.50; 1000, price on request.

LOGANBERRY

In great demand again for canning and drying. An exceedingly strong grower and an enormous bearer. Color dark red. Has a pleasant, vinous flavor, delicious and peculiar to this berry alone; fruit ripens early. It is excellent for the table, eaten raw or stewed, and for jelly, jam or "juices," is without an equal.

Transplants (2 year, extra strong)—Prices, each 25c; doz. \$2.25, postpaid. Not prepaid, each 20c; doz. \$2.00; 100 \$15.00.

CURRANTS

Each 20c; 10 \$1.75; 100 \$12.50

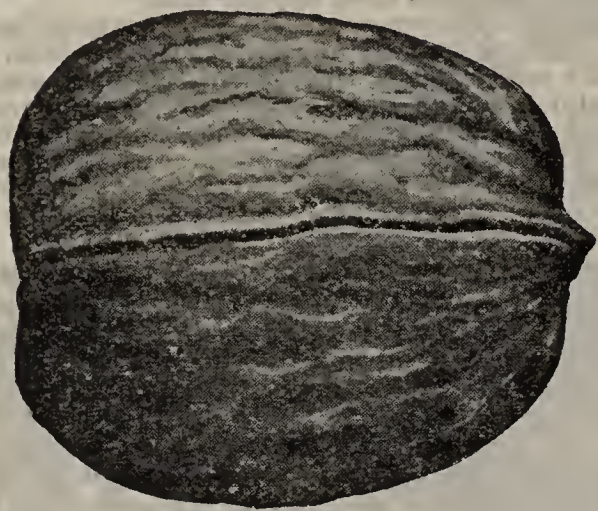
Perfection—New; largest and most prolific currant; bright red, rich flavor, mild sub-acid; no currant can approach in yield or quality this wonderful new currant.

Cherry—Very large, deep red, fine for preserving; valuable market variety.

Fay's Prolific—Bright red, very sweet, stems longer than Cherry and fruit hangs on better than most varieties. To be planted with Cherry.



# NUT TREES



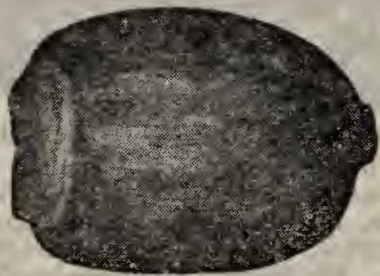
## GRAFTED WALNUTS

We offer a splendid strain of Franquettes, the best variety for this section, grafted on four-year California Black Walnut—sturdy, thrifty trees with big fibrous roots. The best to plant. Comes to bearing much younger than seedling walnut.

Trees one and two years from the graft on three and four-year-old roots:

These are all too large to be sent by parcel post.

| Size              | Each   | Dozen lots | Hundred lots |
|-------------------|--------|------------|--------------|
| 8 to 10 feet..... | \$1.60 | \$1.50     | \$1.40       |
| 6 to 8 feet.....  | 1.40   | 1.30       | 1.20         |
| 4 to 6 feet.....  | 1.20   | 1.10       | 1.00         |



## FILBERTS

Plant more of them

**Barcelona**—Magnificent large nut from Spain, first quality; can be grown as low standard tree or bush. 2 to 3 feet. Each 75c; 10, \$5.00

**Du Chilly**—The largest Filbert on Pacific Coast. Nuts are broad, 1 inch by  $\frac{3}{4}$  of an inch; full fleshed and sweet; best grown as low standard. Special prices on large orders. Du Chilly is a good pollenizer for Barcelona. 2 to 3 feet. Each 75c; 10, \$5.00

## ALMOND (Nut Bearing)

|                  | Each   | Per 10 |
|------------------|--------|--------|
| 3 to 5 feet..... | \$0.75 | \$6.00 |

### I. X. L.

A vigorous grower and sure cropper, producing nuts of large size and handsome appearance; shell thin; most popular commercial.

## BUTTERNUT

A beautifully formed tree bearing a rough coated nut of most attractive flavor, well known to the middle West. Succeeds fairly well in the Pacific States. Price, each \$1.50

## CHESTNUT

|                  | Each   | Per 10 |
|------------------|--------|--------|
| 3 to 5 feet..... | \$0.75 | \$6.00 |

**American Sweet**—Makes a handsome shade tree; full medium size, sweet and well flavored.

**Spanish**—A valuable species both for ornamental use and fruit. It forms a handsome lawn tree and produces much larger fruit than the average American variety.

## MAMMOTH JAPANESE

A variety we import from Japan; yields much the best and largest fruit.

If you are interested in Grafted Chestnuts write us.

## HICKORY

**Shellbark**—Popular Eastern variety; tree hardy but slow grower. Nuts medium size; very good. Quality excellent. 3 to 5 feet. Each \$2.00; 10, \$15.00

# GARDEN BOOKS

**The Book of Bulbs.** By F. F. Rockwell. Gives complete cultural directions for growing all kinds of bulbs. 272 pages. Cloth cover. \$2.00, postpaid.

**The Book of Annuals.** By A. C. Hottes. A reliable guide on the use of annuals, seed sowing, transplanting, watering, fall sowing, etc. Cloth bound. \$1.65, postpaid.

**The Book of Perennials.** By A. C. Hottes. Gives species, varieties, height, flowering period, color, and complete cultural directions of over 125 special species. \$1.65, postpaid.

**1001 Garden Questions Answered.** By A. C. Hottes. Answers all kinds of questions on growing vegetables, flowers, fruits, etc. It will help you in many ways to grow a better garden. 293 pages. Cloth bound, \$2.15; paper bound, \$1.65, postpaid.

**Milady's House Plants.** By F. E. Palmer. Tells of the care of house plants, including palms, ferns, rubber plants, etc. Cloth bound. \$1.35, postpaid.

**Garden Guide.** A complete handbook for the amateur gardener, with 384 pages and over 275 illustrations. Has chapters devoted to vegetables, flowers, fruits, vines, etc. \$1.65, postpaid.

**Practical Plant Propagation.** By A. C. Hottes. Tells how to increase plants as practised by gardeners, florists, nurserymen. Cloth bound. 224 pages. \$2.15, postpaid.

**Plant Culture.** By Oliver and Hottes. Concise information on how to grow all kinds of annuals, perennials, shrubs, etc. With full instructions on the best methods of propagation of each kind. 442 pages. \$3.65, postpaid.

**Commercial Floriculture.** By Fritz Bahr. 560 pages, well printed, giving expert information about all kinds of plants usually grown by florists. A book every florist should have. \$5.50, postpaid.

**Rock Garden Primer.** By Archie Thornton. Tells how to construct and plant a rock garden, location, drainage, soils; 152 pages; 70 illustrations; 4 color plates; imitation leather, \$2.15, postpaid.

**The Book of Shrubs.** By Alfred C. Hottes. An excellent book of 446 pages. Gives full descriptions and cultural directions. \$3.15, postpaid.

**Dahlias.** By F. F. Rockwell. Discusses, on 84 pages, soils, fertilizers, planting, protection, storing, propagation, growing, and the use of the Dahlia. Cloth bound. \$1.10, postpaid.

**Irises.** By F. F. Rockwell. A handy guide describing all types, with cultural methods, fertilizers, planting, care, and how to use. 80 pages. \$1.10, postpaid.

**How to Grow Roses.** By Pyle, McFarland, and Stevenson. Gives complete and practical information on all questions. A wonderful book; 211 pages; 138 illustrations. \$2.15, postpaid.

## HERE IS A BOOKLET YOU SHOULD HAVE

It is called

## BETTER GARDENING

of 64 pages which tells you what, when and how to plant. A complete handbook of suggestions for the home gardener.

By HARRY R. O'BRIEN

10c or 12c postpaid

And many others. Send for booklet on books as space will not permit listing more.



## ORNAMENTAL CLIMBING VINES

That which is ugly may be transformed into beauty with vines



BOSTON IVY

### Akebia Quinata

A perfectly hardy, fast growing Japan vine, with magnificent foliage never attacked by insects; producing chocolate purple flowers in large clusters, possessing a most delicious perfume; unsurpassed for covering trellises and verandas.

2 year—60c each; \$5.00 per 10

### Amphelopsis

**Veitchi (Boston Ivy)**—The most popular and desirable climbing plant for covering brick, stone or cement walls, etc. Clings to the smoothest surface. Foliage rich olive green during the summer, bright crimson and scarlet in the fall. Strong plants, 50c to 60c; extra strong, 75c to \$1.00.

**Quinquifolia (Virginia Creeper, or American Ivy)**—One of the best and quickest growing varieties for covering trellises, arbors, etc. Its large deep green foliage assumes brilliant shades of yellow, crimson and scarlet in the fall. Strong plants, 50c to 60c; extra strong, 75c to \$1.00.

**CINNAMON VINES** are the most desirable, easiest grown climbers in the world. They are from China—the land of wonders. Their abundant blossoms perfume the air for a long distance. No words can describe their delicious fragrance. Perfectly hardy—thriving in all soils, in sun or shade, wet or dry. No insects, blight or disease of any kind ever troubles them, no winter harms. Once planted they will grow a lifetime.

Each 25c; five for \$1.00, postpaid



### CLEMATIS

**Jackmanii**—Intense violet purple, with a rich velvety appearance; distinctly veined. Each \$1.00

**Clematis Paniculata**—A rapid and vigorous grower; it produces sheets of medium sized, pure white flowers of the most pleasing fragrance; well adapted for covering trellises or fences.

Choice plants, 50c; extra fine, 75c

### Celastrus Scandens (Bittersweet)

Handsome glossy foliage and large clusters of beautiful, orange crimson fruits retained all winter. Its graceful sprays of berries make charming winter house decorations. A popular vine for covering rough fences.

Each \$1.00

### Aristolochio Siphon (Dutchman's Pipe Vine)

A vigorous and rapid-growing climber, bearing singular brownish-colored flowers, resembling in shape a pipe. Its flowers, however, are of little value compared to its light green leaves, which are of very large size, and retain their color from early spring to late fall; perfectly hardy. Very strong plants, \$1.00 each.

### Honeysuckle

A beautiful climber, rapid grower and very desirable. Flowers very fragrant.

Your choice of the following, 60c to 75c each; extra strong, \$1.00.

**Halleana**—Very popular; almost evergreen; flowers white, passing to yellow.

**Belgica (Monthly Fragrant)**—Flowers are large; color red and yellow.

### Ivy Evergreen

**Common English**—Thick, leathery evergreen leaves. Strong grower. Good roots. Each 25c; large, 50c.

### Jasmines

**Nudiflorum**—Favorite climber for sheltered positions; hardy south of Philadelphia, fragrant yellow flowers. Each \$1.00

**Officinale**—Pure white fragrant flowers. A splendid climber for a sheltered position. Each \$1.00

### Bignonia (Trumpet Vine)

**Radicans**—For covering unsightly places, stumps, rockwork, or wherever a showy-flowering vine is desired, this will be found very useful. The dark red flowers, with orange throat, are large, attractive, and borne profusely; very hardy. Each \$1.00



### Wistarias

The strongest growing of all hardy vines, easily reaching the roof of a two-story building in a few years if given a chance to climb. (See cut.) Flowers appear with the first leaves late in the spring.

**Sinesis**—Purple or white; strong vines.

Each \$1.50 to \$2.00

**W. Multijuga**—Similar to Wistaria Sinensis except in color of flowers which are dark violet blue, borne in very long racemes. Each \$2.00



HARDY ORNAMENTAL TREES

BETULA (Birch)

**Betula alba.** "European White Birch." 40 ft. A large spreading tree with gray green foliage and slender branches. As the trees get older the bark becomes white and branches are often pendulous.

5 to 6 ft., \$1.00

**Betula alba laciniata.** "Cutleaf Weeping Birch." 25 ft. The most ornamental of all Birches with very white bark, pendulous branches and deeply cut leaves. Beautiful as a single specimen or in groups.

4 to 6 ft., \$1.00

CATALPA

**Catalpa speciosa.** "Western Catalpa." 60 ft. A hardy ornamental tree especially desirable to plant where winters are cold. A good tree for the desert, since the leaves are large and give good shade. The tree will stand considerable abuse, but responds to good treatment.

5 to 6 ft. \$1.00

CHERRY

**Japanese—Double pink flowers.** 2 to 3 ft. \$1.00; 3 to 4 ft. \$1.25; 4 to 5 ft. \$1.50.

CRAB

**Bechtel's Flowering—Masses of double pink rose-like flowers fragrant.** 2 to 3 ft. 75c; 3 to 4 ft. \$1.00; 4 to 5 ft. \$1.25.

HORSE CHESTNUT (Aesculus)

**White Flowering (Hippocastanum).** Foliage showy. Flowers stand in upright panicles.

6 ft. \$1.35

LABURNUM (Golden Chain)

**L. Vulgari.** A beautiful, small-growing tree, with long, drooping racemes of fragrant yellow flowers.

6-8 ft. \$1.25 each

LINDEN (American)

A stately tree, growing 60 to 80 feet tall, with large, shining cordate leaves. Valuable for its beautiful white wood. Its flowers appear in July.

BLACK LOCUST

A native tree of large size, and rapid growth. Flowers in long white racemes, very fragrant. Valuable for timber.

4 to 6 ft. 75c; 6 to 8 ft. \$1.00

MAPLE

**Norway—Of large, compact habit; broad, deep green shining foliage, and stout, vigorous growth.**

6 to 8 ft. \$1.00

**Oregon—Wide-spreading branches and large foliage; very rapid growth.**

6 to 8 ft. \$1.00

**Silver or Soft—Tree of rapid growth; foliage bright green above and silvery white beneath.**

6 to 8 ft. \$1.00

**Purple-Leaved Sycamore Maple—A purplish tone is imparted to the tree by the purple under-surface of its leaves; the effect being very fine when the leaves are in motion.**

6 to 8 ft. \$1.00

**Silver Variegated (A. Negunde Variegatum)—**

4 to 5 ft. \$1.00

**Golden Variegated—4 to 5 ft. \$1.00.**

MOUNTAIN ASH

Very ornamental trees, especially when covered with its clusters of red berries in the fall.

Each, 4 to 5 ft. \$1.00; 6 to 8 ft. \$1.25

THE OAKS—Quercus

**Pin Oak.** Almost pyramidal in habit, and described as half-weeping when old, because its lower branches touch the ground. It grows faster and develops the family characteristics earlier than most oaks. It grows 60 to 80 feet. The leaves are deep green, glossy, and finely divided. Orange-scarlet in fall.

6 to 8 ft. \$1.50 each

PLATANUS (Plane or Sycamore)

**Platanus orientalis.** "European Sycamore." "Oriental Plane." 60 ft. One of the finest deciduous shade and street trees in existence. Grows rapidly, has large maple-like, bright green leaves, is symmetrical and uniform in shape, and grows almost anywhere. Does well with plenty of water, but will thrive with very little. Makes a dense shade and may be heavily pruned if desired.

6 to 8 ft. \$1.25

PRUNUS (Purple Leaved Plum)

**Prunus pissardi.** "Purple Leaf Plum." 15 ft. A very graceful small tree with purple leaves, giving a rich spot of color to any landscape planting.

4 to 6 ft. \$1.25

**Prunus Vesuvius.** "Burbank's Purple Leaf Plum." A strong growing form with very deep colored shiny leaves of rich purple, holding its color well. Long willowy branches.

4 to 6 ft. \$1.25

THE POPLARS—Populus

**Balsam (Balm of Gilead.)** A remarkably rapid growing tree, with luxuriant, glossy foliage.

6 to 8 ft. 75c

**Carolina.** A vigorous, native pyramidal tree of rapid growth, with large glossy leaves; valuable for quick shade. Makes a fine spreading head if well cut back the first few seasons.

6 to 8 ft. 75c

**Lombardy.** The selective appreciation of trained landscape builders is getting this fine type into much more general use. Old trees which were thoughtfully placed, are outstanding landmarks today; their great height, dense slenderness, and sombre silhouette against the skyline, a picturesque effect.

SWEET GUM (Liquidamar)

**Liquidambar styrachiflua.** "Sweet Gum." 30 ft. This beautiful pyramidal tree of symmetrical habit with large maple-like leaves is one of the few trees which assume gorgeous autumn colors.

4 to 6 ft. \$1.25

LIRIODENDRON (Tulip Tree)

**Liriodendron tulipifera.** "Tulip Tree." 125 ft. A hardy, beautiful, pyramidal tree, with handsome, clean foliage, and tulip-like flowers of yellowish-orange. Brilliant yellow in fall.

4 to 6 ft. \$1.25

THORNS FLOWERING (Crataegus)

Handsome dwarf trees with shiny leaves of attractive shape and color; blooming in profusion late in spring with compact clusters of small, rose-like flowers. These are followed by large red fruits and vivid autumnal colorings.

**Double White.** 4 to 5 ft. \$1.00.

**Paul's Double Scarlet.** Flowers deep crimson-scarlet; very double. This is one of the most attractive small trees for solitary specimens or groups, as showy in fruit as when in bloom.

4 to 5 ft. \$1.00

WEeping WILLOWS

There is nothing prettier or more attractive than the long, waving streamers of the weeping willows in any location; but they are particularly effective and at home on the edge of well-kept ponds and landscaped streams.

**Babylonica.** A well-known and most graceful tree of large size. Its fresh, bright green tint and long, wavy branches make it very attractive.

6 to 8 ft. \$1.00

**Wisconsin.** Similar to the Babylonica, but much hardier.

6 to 8 ft. \$1.00

HEDGE PLANTS

**Barberry—Japanese.** 18-24 inches. \$20.00 per 100.

**Box—Dwarf.** 8 to 12 inches. \$16.00 per 100.

**Box—Dwarf,** 6 to 8 inches. \$14.00 per 100.

**Cypress—Lawson.** 18 to 24 inches. \$60.00 per 100.

**Laurel—English.** 18 to 24 inches. \$30.00 per 100.

**Laurel—English.** 12 inches. \$15.00 per 100.

LIGUSTRUM (Evergreen Privets)

The most widely used hedge plants in the southwest are the Ligustrum or Privets, and included among them are tall and low growing varieties, hardy and rather tender sorts, large and small leaved forms, all of which can be trimmed to the size hedge desired.

**Ligustrum ovalifolium.** "California Privet." 3 to 8 ft. Esteemed for hedge plants. A strong growing shrub, with bright green, medium sized leaves; forms a compact hedge if pruned occasionally; easy to grow, extremely hardy and partially deciduous.

**2-year—30 to 36 inches.....\$7.00 per 100**

**2-year—24 to 30 inches..... 6.00 per 100**

**1-year—16 to 24 inches..... 5.00 per 100**

**English (L. Vulgaris).** An old time garden type of informal habit. Gray-green bark and foliage with white flowers and shining black berries. Price as above.

Plant trees to frame the view of your house and to afford shade



## SHRUBS, Etc.

### Almond (Prunus)

**Pink Flowering (P. Japonica)**—Well known early dwarf shrub. Double clear pink little roses festoon the gracefully bending branches. Each \$1.00.

### Althea (Rose of Sharon)

Late summer blooming shrub that continues on up into the fall when color is scarce, bearing flowers that closely resemble the Hollyhocks in color and size. Colors pink, white or red. Each \$1.00.

### Azalea

**A. Mollis**—Low growing shrub that in the early spring is covered with gorgeous flowers before the leaves appear. Each \$2.00.

### Barberry

**Thunbergii**—A beautiful Japan variety of dwarf habit. Small foliage, changing to beautiful red in Autumn. Bright scarlet berries all winter. Each 60c, 75c and \$1.00.

### Buddleia (Butterfly Bush)

**Magnifica** — Lovely long spikes of lilac-colored flowers, Summer and Fall. Attracts butterflies. Small plant, 50c; large, 75c.

### Deutzias

**Lemoinei**—Flowers very large and produced in broad-based, cone-shaped heads of from 20 to 30 flowers each of purest white, 3 to 4 feet. 75c each.

**Pride of Rochester**—Flowers very early, double; pure white, tinged with blush; great profusion. Grows 6 to 8 feet. 75c each.

**Gracilis Rosea**—Dwarf growing with sprays of pretty light pink flowers late in the Spring. A beautiful shrub. 75c each.

### Forsythia (Golden Bells)

**Intermedia**—Blooms early in Spring, before the leaves appear, when it is covered with golden bell-like flowers, 2 to 3 feet. Each 60c to 75c.

**Fortunei**—Upright; makes fine single specimens; golden flowers in profusion in April. Each 60c to 75c.

### Hydrangea

**Paniculata Grandiflora**—Immense panicles of bloom, from July to November, creamy white, pink flush. Prune back in early Spring about half of previous year's growth. Hardy everywhere; good for cemetery planting. 2 to 3 feet, 75c; 3 to 4 feet, \$1.00.

**Otaksa**—One of the most popular lawn plants. The flowers run in shades of pink, blue and white, mineral in soil often changing them to two or three shades in one. Fine for shady places. Each 75c to \$1.50.

### Kerria

Very graceful shrub, bright yellow flowers in early spring, vivid green branches, showy in winter. Ea. 75c

### Lilac (Syringa Vulgaris)

**Common Purple**—Very fragrant, an old favorite. 3 to 4 feet, 75c; 10, \$6.00.

**Common White**—Same as above, flowers white. 3 to 4 feet, 50c; 10, \$4.50.

### Mock Orange (Philadelphus)

**Grandiflora**—Flowers large; slender twig habit, 3 to 4 feet. Each 50c; 10, \$4.50.

**Hybrid**—2 to 3 feet, 50c.

### Quince

**Japonica (Japan Flowering)**—Blossoms vary from the richest scarlet to the most delicate blush color; the fruit is deliciously fragrant, but not edible. 2 to 3 feet. Each \$1.00.

### Snowball

**Common**—Flowers globular, pure white, in May. 3 to 4 feet. Each 75c.

**Japanese**—Flowers pure white, delicate large globular heads in May. 2 to 3 feet, \$1.00.

### Spiraeas

Each 75c

**Spiraea Thunbergii**—Charming spiraea with graceful form and abundant blooms.

**Billard's (S. Billardi)**—Flowers red in dense spikes, blooms most of Summer.

**Van Houtte's Bridal Wreaths (S. Van Houetti)**—Very graceful; flowers white in round clusters. May.

**Crimson—Anthony Waterer (S. Bumalda)**—A most desirable variety, having deep red flowers.

### Weigelia

**Candida**—Flowers white, bush tall. 75c.

**Rosea**—Flowers light pink, shrub compact. 75c.

**Eva Rathke**—Flowers red, one of the best. Slightly dwarf. 75c.

**Variegated**—Leaves become silver white. 75c.

### Age of Bearing—Distance to Plant

As the age of bearing depends so much upon variety, soil, climatic conditions and care given, this can only be an approximate table under average conditions. To ascertain the number of trees or plants required for any given space, multiply the length of the space by the breadth to ascertain the number of square feet contained therein. Then multiply the distance apart you intend to set your rows by the distance between each tree or plant in the row to get the number of square feet each tree or plant will take. Divide the number of square feet in the given space by the number of square feet each tree will require and the result is the quantity of trees or plants for that given space.

|                    | Age of Bearing | Distance Apart | Number per Acre |
|--------------------|----------------|----------------|-----------------|
| Apples, std. ....  | 3 to 6 years   | 35x35 ft.      | 35              |
| Apricots .....     | 3 years        | 15x15 ft.      | 193             |
| Blackberries ..... | 1 year         | 8x 6 ft.       | 907             |
| Cherries—          |                |                |                 |
| Sour .....         | 3 to 4 years   | 15x15 ft.      | 193             |
| Sweet .....        | 3 to 4 years   | 20x20 ft.      | 108             |
| Currants .....     | 2 years        | 4x 4 ft.       | 2722            |
| Gooseberries ..... | 2 years        | 4x 4 ft.       | 2722            |
| Grape .....        | 2 years        | 8x 8 ft.       | 680             |
| Peaches .....      | 2 years        | 15x15 ft.      | 193             |
| Pears—             |                |                |                 |
| Standard .....     | 3 to 4 years   | 20x20 ft.      | 108             |
| Dwarf .....        | 2 years        | 10x10 ft.      | 435             |
| Plums .....        | 3 to 4 years   | 20x20 ft.      | 108             |
| Quinces .....      | 4 to 5 years   | 10x10 ft.      | 435             |
| Raspberries .....  | 1 year         | 6x 4 ft.       | 1815            |
| Rhubarb .....      | 1 year         | 4x 3 ft.       | 3630            |
| Strawberries—      |                |                |                 |
| Farm .....         | 1 year         | 4x 1 ft.       | 10890           |
| Garden .....       | 1 year         | 2x 1 ft.       | 21780           |

## How to Prune Fruit Trees

For the home orchard, the trees should be gone over once each season and where limbs are crowding, they should be thinned out enough so that they do not rub or interfere one with the other. Best results are usually obtained when this is done in late winter or early spring. All cuts should be made smooth with the shoulder which extends slightly out from the body. Do not leave any stubs, but cut close up to the shoulder.

Do not trim lower limbs off to make high headed trees. Low, compact heads stand the windy conditions of the Northwest, better than high-open-topped trees. Just use common sense in thinning out the limbs, cutting out the most undesirable, where two limbs are interfering one with another. Heavy later pruning can be avoided if care is taken the first two seasons after planting, to see that the heads are properly formed. It is important to get the right frame limbs for the tree right at the start. If this is properly done, less later pruning will be required.

## Culture of Small Fruits

Bramble fruits like blackberries, raspberries, dewberries, etc., should have all old wood (older than the previous season's growth) cut out close to the ground each spring and the past season's growth should be trimmed back to 3 or 4 feet in height. All of the old canes should be removed and should be burned.

Mulching of currants and gooseberries will give good results.



## SHRUBS, Etc.

### ABELIA

A Chinese shrub of rather recent introduction that is highly satisfactory here and rapidly becoming very popular. A graceful, low growing evergreen with dark, glossy, rather delicate leaves and handsome clusters of light pink flowers that turn to rosy pink. In bloom from June to late fall; select, 75c to \$1.00

**Grandiflora**—Small glossy leaves, tubular shaped flowers blush pink, late summer blooming. Each \$1.00

### AUCUBA (JAPANESE LAUREL)

**Japonica**—Variegated shrub, yellow spotted leaves, red berries after a certain age. \$1.50

**Japonica, Green**—Leaves glossy green, bears fruit which stays on all winter at age of two years. Each \$1.00

### AZALEA

**Crimson**—A. Hinodegri (Asahi) — Evergreen from Japan, bright, minute, waxy foliage that turns gamete in winter. Loaded in early spring with masses of scarlet flowers. Choice of plants, each \$2.00.

### BARBERRY

**Berberis Darwini**—Holly-like leaves, blue berries, clusters of yellow flowers in early spring; desirable for hedges. Each \$1.00

### BOXWOOD (BUXUS)

**Pyramidal**—Cone-shaped plant of great beauty. 2 to 2½ ft. Each \$4.00; 2½ to 3½ ft. \$5.00.

**Globe**—Globe-shaped. Each \$2.00 to \$4.00.

For boxwoods for hedges and borders, write for prices on quantity desired.

### CAMELLIA

Small tree, waxy leaves, beautiful waxy flowers, resembling a small rose. Assorted colors only. 1½ ft., each \$1.50

### COTONEASTER

Very beautiful, practically evergreen, fine cut leaves, showy red berries stay on all winter. Bush, trailing and tall varieties.

**C. Horizontalis** (Trailing)—Low growing with long horizontal branches. Each \$1.00 to \$1.50.

**C. Microphylla**—Trailing form. Each \$1.50

**C. Franchetti**—Large size, gracefully drooping, masses of red berries in fall. Each \$1.50

**C. Simonsii**—Upright growing, bright leaves, pinkish flowers, red berries all winter. Fine for massing. Each 75c to \$2.00

### DAPHNE (ODORA)

Japanese shrub with waxy light green foliage, pink and white flowers in early spring of wonderful fragrance. Well rooted out of 5 in. pots. No color guarantee. Each \$1.00 to \$2.00

### HOLLY (ILEX)

**English** (Aquifolia)—Prickly dark green foliage, grows moderately fast, covered during winter months with bright red berries.

Berry-bearing trees, each \$1.00 up

### LAURISTINUS

Dark green leaves, flowers white, tinted with pink, blooming late winter and early spring. Each 75c to \$2

### LAUREL (ENGLISH LAUREL)

**Lauro-Cerasus**—Small tree-shrub; large, handsome, shining foliage all year. Fine for hedges and specimen plants. Each 75c to \$2.00. (For hedge plant size write for prices on quantity desired.)

### LONICERA

**Nitida** (Evergreen Bush Honeysuckle)—Slender branches, bright glossy foliage. Excellent for massing or tub plant. Each \$1.00

### OREGON GRAPE

**Mahonia Aquifolia**—Official flower for the state of Oregon. Each 75c to \$2.00

### PORTUGAL LAUREL

Beautiful slow growing laurel, dark green glossy leaves, small, very compact. 18 to 24 in., each \$2.00; 24 to 30 in., each \$3.00.

### PRIVIT (LIGUSTRUM OVALIFOLIUM)

**Golden Privit**—Beautiful variegated shrub to plant among evergreens, giving a wonderful effect. 2 ft., each \$1.00 to \$1.50

**California Privit**—Our best plant for hedges. Plant in double row 2 ft. apart, 6 in. between plants. Price, see Hedge Plants.

### PYRACANTHA

**Evergreen Thorn**—Tall growing, long narrow green leaves, small, white flowers, followed by orange berries all winter. We have orange-scarlet and orange-yellow berried plants.

**Pyracantha angustifolia**—China. 6 to 10 ft. Growth spreading; somewhat spiny; leaves long and narrow; berries very abundant, orange yellow, developing their color late and holding it throughout the winter. Ea. \$1

**Pyracantha Lalandii**. "Burning Bush."—8 ft. An evergreen shrub of spreading habit; foliage a rich dark glossy green; clusters of white flowers in the spring are followed by a wealth of orange-colored berries, which remain on the plant all winter. Each \$1.00

## RHODODENDRON

### CALIFORNICUM

is a large evergreen shrub with rose-colored flowers in large clusters. It thrives best in shade in a soil in which there is plenty of leaf mold or peat, and they should be mulched with light material. I have fine plants which have been established, 2 to 3 feet high. Each \$2.00

### VERONICA

Shrubs of compact growth, forming well rounded specimens which can be used singly or in groups.

**V. Buxifolia** (Box Leaved)—Small, upright growth, white flowers. Each 75c to \$1.50

**V. Cypressoides**—Globular shape, numerous slender branches clothed with scale-like leaves. Ea. 50c to \$1.50

**V. Traversi**—Upright, hardy variety, white flowers. Each 50c to \$1.50

### ARAUCARIA

**Imbricata** (Monkey Puzzle)—A fine tree of regular pyramidal form; leaves bright green, overlapping each other: 8 to 10 in. Each \$1.00

## CYPRESS (Cypressus)

### CHAMAECYPARIS LAWSONIANA ALUMI

"Blue Lawson Cypress." This is the most popular Lawson Cypress, because of the beautiful metallic silvery blue color of the foliage and the symmetrical habit of growth. The branchlets are flattened, are very close together and the plant forms an upright pointed column. It thrives anywhere on the coast and in all but the very hot sections of the interior. Ultimately it reaches 12 feet, but does not reach this size for many years. \$1.00 to \$2.00 each

**Cypress Lawson's** (Chamacyprais Lawsoniana)—Graceful and conspicuous; branches horizontal, slightly pendulous; foliage dark green. Each \$1.00

**Italian**—Bright green. Very compact in growth; nothing finer in upright type. 2 to 3 ft., each \$2.50; 3 to 4 ft., \$3.00.

### SPRUCE (PICEA)

**Colorado** (Pungens)—The original form of the famous Blue Spruce; foliage sometimes quite blue, mostly light green. A vigorous grower and hardy, making fine specimens in a broad based, sharply defined pyramid form; foliage rigidly angular with sharp needles very densely set. Each \$3.00

### YEW (TAXUS)

**Taxus baccata**. "English Yew."—25 to 50 ft. The well known ancient Yew of England. Slow growing but attains considerable size in time. Very dark green foliage, and can be trimmed to any desired shape. 2 ft., Each \$1.00

**Yew—Washingtoni**—15 ft. A wide spreading Yew, branches drooping at the tips. Dull green foliage. Each \$1.00

All Shrubs and Shade Trees are Priced for Freight or Express, Except Where Specially Stated "Mail Size."

Please bear this in mind when ordering, it is important. We pay postage on everything offered in "Mail Size"—which is quite small and light enough for mailing in limited quantities. But the sizes offered by height are too large to mail, and must be sent by express or freight at customer's expense.





No. 212—Solid Steel Trowel. 50c, postpaid



Garden Trowel No. 4—25c



No. 2120—Socket Garden Trowel.  
Price, 50c each, postpaid



No. 217—Transplanting Trowel. 25c, postpaid



No. F-30—SPADING FORK

A very handy tool, forged 3 tine, polished and green enameled. Length 11 in. Hardwood handle. Each 50c.

Moe's Garden Weeder

One piece pressed steel. Handsomely finished in black baked enamel. Has five steel fingers, and is one of the most useful and handiest garden tools made. Ground and polished points.



MOE'S LINE

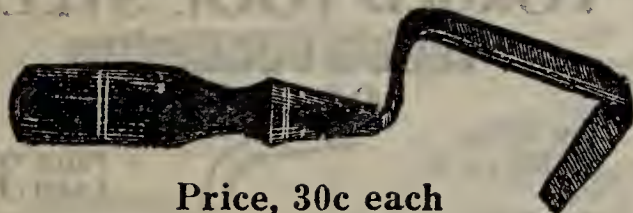
Price, 25c each, postpaid

**LANG'S  
HAND  
WEEDER**

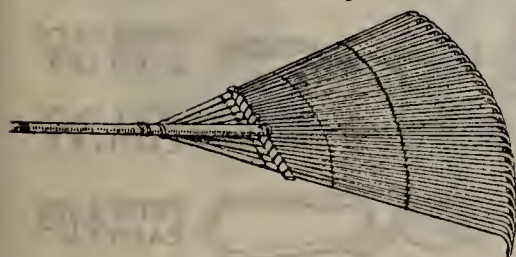
**HANDIEST  
TOOL**

**ON EARTH**

Price, 25c each  
Ideal Hand Weeder and Scraper



Price, 30c each

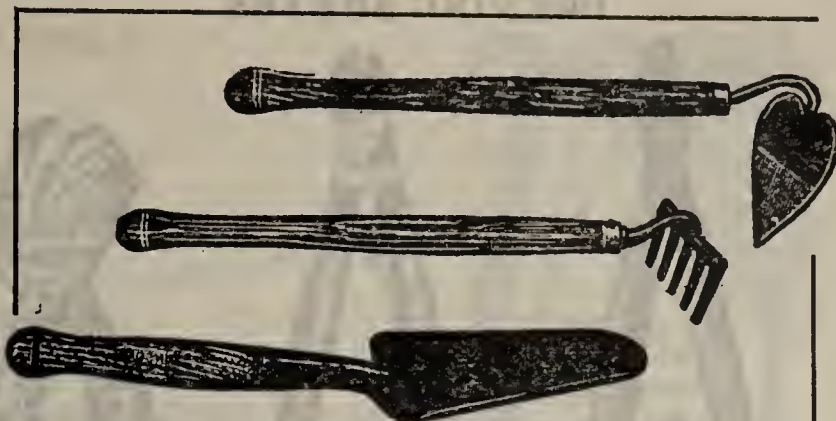


**JAPANESE  
BAMBOO  
BROOM  
RAKE**  
Each, 35c

All-Steel Weeders

An improved tool, designed especially for the purpose of weeding when it must be done by hand. We assure you there is none better.

No. 6312, 12-inch handle.....Each 25c  
No. 6340, 40-inch handle.....Each 35c



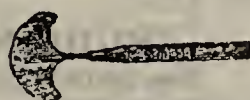
**AMERICAN BEAUTY  
GARDEN SET**

The finest floral set made. Price, per set, \$1.00; if by mail, add 20c for postage.

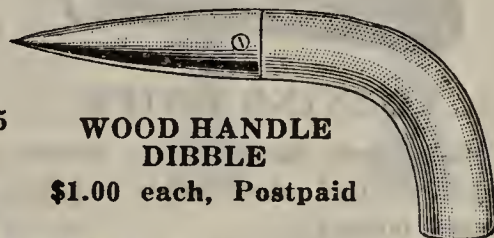


**MAYNARD TROWEL**

6-inch blade and shank, solid steel socket. The best trowel made. Price \$1.00, postpaid.



**TURF EDGER**  
American. Each \$1.25



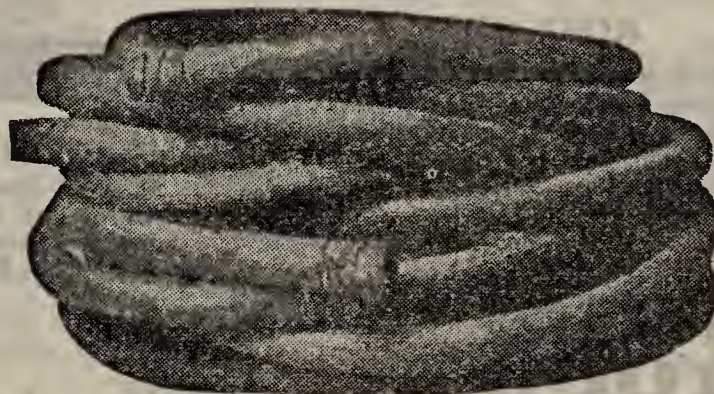
**WOOD HANDLE  
DIBBLE**  
\$1.00 each, Postpaid



**HOSE WASHERS**  
½-inch, rubber  
Doz. 10c



**D HANDLE DIBBLE**  
\$1.00 each, postpaid

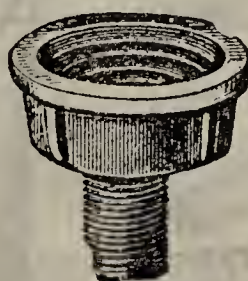


**GARDEN HOSE**  
**Butzer's Non-Kinkable**

A brand of hose, manufactured especially for greenhouse use. The inner tube is made of the best quality rubber and is very strong; the jacket of canvas or duck is mixed in such a way with the outer cover that it is extremely pliable and will not kink or crack.

Comes in reels of 500 feet, order exact number of feet you require. We can cut in any length.

Price, ½-in., 10c per ft.; ¾-in., 12c per ft. Couplings free in 10-ft. lengths and over.



No. 50  
No. 50—Nozzle  
and Hose Coup-  
plings.  
Price .....\$0.35



No. 40  
No. 40—Nozzle  
Coupling  
and Hose Stock.  
Price .....\$0.40



No. 56  
No. 56, Couplings, ½ or ¾-  
inch. Postpaid .....\$0.35



## PRUNING SHEARS



No. 30  
Price \$2.50 each



No. 20  
Price \$2.00 each



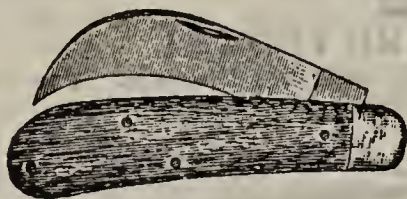
No. 5406  
Price \$2.00 each



No. 800—8 inch \$1.75  
No. 9 —9 inch 2.00



No. 660.....\$1.50  
Special 6-inch blade



## PRUNING KNIFE

Handy grip ebony handle, curved, polished, tool steel blade, nickel-plated bolster.

No. 9215—Price each \$1.00.



## ROSE SHEAR

Full nickel plated, 7 inches long, forged from high grade steel. Its fine finish and handy size makes it very desirable.

No. B-7728—Price each \$1.00.



## BUDDING KNIFE

Has pointed blade and broad bone opening spoon.

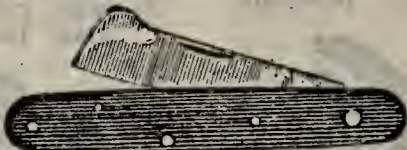
No. 6427—Price each \$1.50.



## PRUNING SHEAR

Full polished Swiss Pattern shear, crucible steel blade, ratchet, regulated adjusting nut; 9 inches long.

No. B-202—Price each \$1.25.



## BUDDING KNIFE

A well-shaped good sized knife with special blade to open cleft for inserting buds.

No. 436—Price each \$1.25.



## PRUNING SHEAR

Heavy 9-inch shear with volute spring, high grade polished steel blade, attractive finish. A well made article.

No. B-100—Price each \$1.00.



## THINNING SHEAR

Mill finish, used for thinning fruit and for picking grapes, etc. 7 inches long.

No. 101—Price each 50c.



## BUDDING KNIFE

Stationary blade.

Price, 60c each.

GRAFTING WAX— $\frac{1}{4}$  lb. 20c;  $\frac{1}{2}$  lb. 30c; 1 lb. 50c.

# TRIM YOUR HEDGE

WITH AN  
ALL-STEEL

## SAW-TOOTH

QUICK, EASY-CUTTING

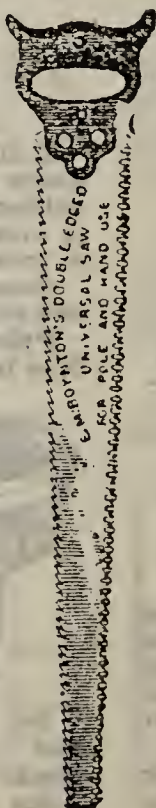
TRADE **VILLAGE BLACKSMITH** MARK



## HEDGE SHEAR

—The Blades will stay sharp—  
—The Handles will not come off—

No. St.—6 inch .....\$1.35  
No. St.—8 inch ..... 2.00  
No. St.—9 inch..... 2.25



No. 2—PRUNING SAW, 18-inch, each, postpaid. \$1.75  
No. 3—PRUNING SAW, 16-inch, each, postpaid. 1.50

# ALL ARE MADE OF FORGED TOOL STEEL

**VILLAGE BLACKSMITH  
QUALITY**

No 2219  
DIBBLES



PRICE  
EACH 35¢

No 219  
DANDELION  
DIGGERS OR  
ASPARAGUS  
KNIVES



PRICE  
EACH 35¢

No 830  
WEEDERS



PRICE  
EACH 35¢

No 179  
ALL STEEL  
PRUNING  
SHEARS



PRICE  
EACH \$1.00

No. T 20  
GARDEN  
TROWELS



PRICE  
EACH 50¢

No 3  
GRASNIPS  
EASY SPRING ACTION  
HOLLOW GROUND BLADES  
EASY GRIP HANDLES



PRICE  
EACH 75¢

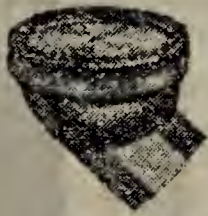




## Raffia

Natural color, for nursery and garden work, also used for making baskets.

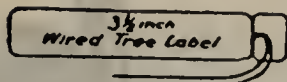
40c per lb.  
Postpaid



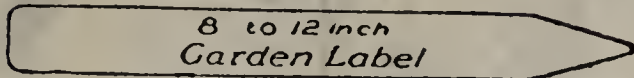
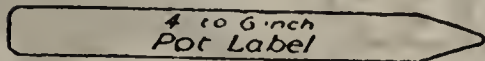
No. 80 Nozzle  
75c



No. 75 Nozzle  
75c



### LABELS



### TREE LABELS

Copper Wired and Painted

3 1/2 inch—35c per 100, \$2.90 per 1000

### LABELS, Wood, for pot and garden plants

| Size              | 100    | 1000    | Size             | 100    | 1000    |
|-------------------|--------|---------|------------------|--------|---------|
| 4 x 5/8 in...     | \$0.30 | \$ 2.00 | 8 x 7/8 in...    | \$1.25 | \$ 8.00 |
| 4 1/2 x 5/8 in... | .35    | 2.50    | 10 x 5/8 in...   | 1.50   | 9.00    |
| 5 x 5/8 in...     | .40    | 2.75    | 10 x 7/8 in...   | 1.75   | 10.50   |
| 6 x 5/8 in...     | .50    | 3.25    | 12 x 1 1/8 in... | 2.25   | 13.50   |

### STAKES, Bamboo

Dyed Green, very fine for staking delphinium, hardy chrysanthemums, gladiolus, etc.

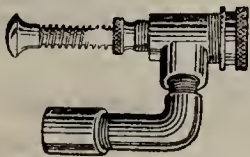
| Length     | Doz.   | 100    | 1000   | Length     | Doz.   | 100    | 1000   |
|------------|--------|--------|--------|------------|--------|--------|--------|
| 18 in..... | \$0.15 | \$0.65 | \$4.00 | 36 in..... | \$0.30 | \$1.25 | \$7.50 |
| 24 in..... | .20    | .85    | 5.75   | 42 in..... | .35    | 1.50   | 8.50   |
| 30 in..... | .25    | 1.10   | 6.50   | 48 in..... | .40    | 1.75   | 9.50   |

### STAKES, Round

Painted green. A good, strong stake.

|             |                      |
|-------------|----------------------|
| 3 feet..... | 4c each, \$0.40 doz. |
| 4 feet..... | 5c each, .50 doz.    |
| 5 feet..... | 8c each, .80 doz.    |
| 6 feet..... | 11c each, 1.10 doz.  |
| 7 feet..... | 13c each, 1.30 doz.  |
| 8 feet..... | 16c each, 1.60 doz.  |

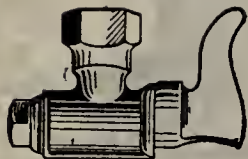
### ONE POINT VERMOREL NOZZLE



All brass, equipped with five extra steel discs which may be easily renewed. The needle plunger permits easy cleaning of the nozzle. This is an excellent nozzle for use in white-washing. Each 80c



**AUTO-POP** — An Automatic shut-off made entirely of brass. We are the pioneer builders of this type of shut-off. By a pressure of the fingers on the handle the spray is turned on

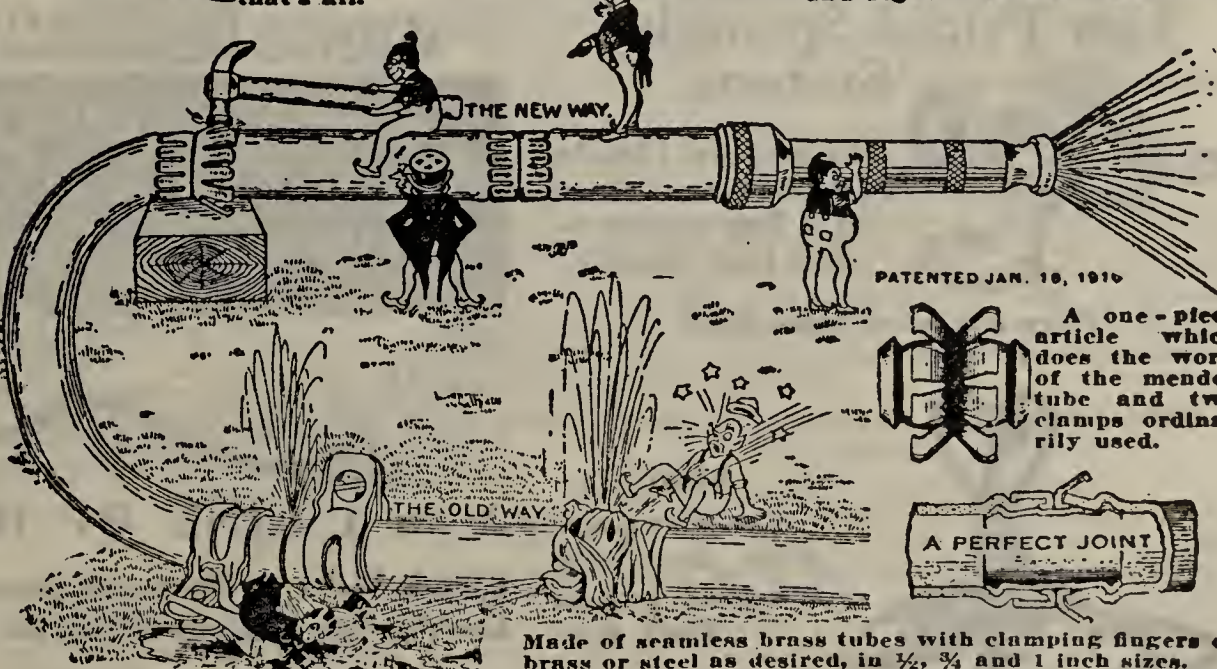


Bordeaux Nozzle  
Each 80c

and by releasing this pressure the spray is automatically turned off. The Auto-Pop saves solution and reduces labor by 100%. Each \$1.60

Slip it in the Hose and Hammer Down —that's all.

It leaves the Hose as Smooth and Strong and Tight as a New Hose.



PATENTED JAN. 16, 1916

A one-piece article which does the work of the mender tube and two clamps ordinarily used.

A PERFECT JOINT

Made of seamless brass tubes with clamping fingers of brass or steel as desired, in 1/2, 3/4 and 1 inch sizes.

**PERFECT CLINCHING HOSE MENDER**—The best mender made. Please state size of your hose. 1/2 or 3/4 inch, 15c each, 2 for 25c, postpaid.



6 foot..\$1.65 10 foot..\$2.00  
8 foot.. 1.85 12 foot.. 2.15

Cannot be mailed



ADJUSTABLE NOZZLE  
Each, 75c



No. 55—Brass Yerdon's Bands, 1/2 or 3/4-inch. Postpaid, each 5c; doz. 50c.



**PERFECT CLINCHING COUPLER**

1/2 or 3/8 inch.

Per pair, 35c, postpaid



# Royal MISTYFIER

## THE PERFECT LAWN SPRINKLER

KING OF THEM ALL

- cannot clog
- cannot rust
- cannot wear out
- cannot get out of fix

Here comes the kind of rain that delights the home-owner—soft—steady—the kind that soaks without washing. Misty, dripping moisture without violence. The fine, aerated moisture of the Mistyfier cannot damage the most delicate blooms—cannot wash out the finest seeds or roots.

Performs dependably under all pressures. The higher the pressure the greater the sprinkled area, so the range can be controlled at the hydrant.

Every Mistyfier is a lifetime sprinkler. No moving parts to wear—no bearings to stick—no arms to break—no pinholes to clog.

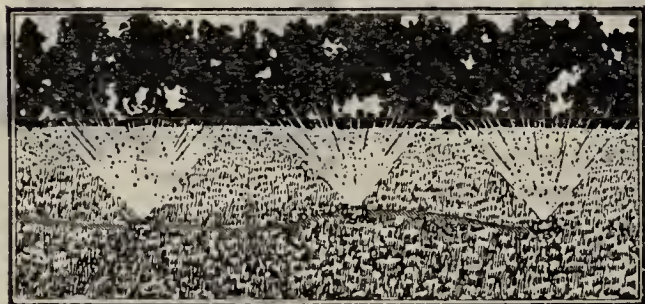
Clean-cut in appearance—compact—cast of special aluminum alloy. Cannot get out of order.

### NOTE THESE ROYAL FEATURES

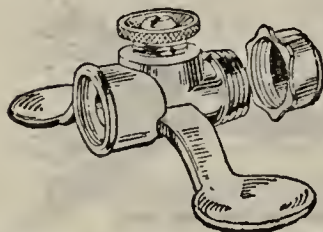
- |                                |                                    |
|--------------------------------|------------------------------------|
| 1. Unconditionally Guaranteed. | 5. Cleans itself of sand and dirt. |
| 2. Rustproof aluminum alloy.   | 6. Aerates the water.              |
| 3. No moving parts.            | 7. Fine penetrating mist.          |
| 4. No pinpoint nozzle.         |                                    |

**PRICE**  
**\$1.00**  
Postpaid

## VILLAGE BLACKSMITH PORTABLE SPRINKLERS



### A Durable, Efficient Low Priced Sprinkler System.



Adjustable Heads. Made to use three in a line twenty-five feet apart.

Price per set of three \$1.50



#### BUSY

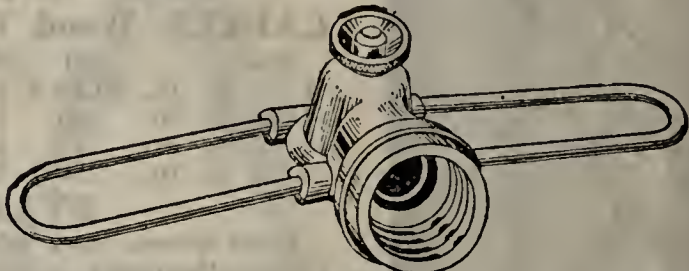
A regular water flirter. Runs easy. Weight 2 pounds. Price \$1.00



### FAN SPRAY SPRINKLER

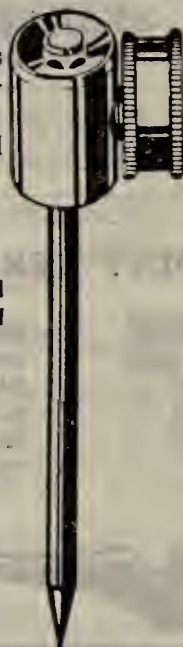
A doubtful looking sprinkler but a dandy. Throws a fan-shaped mist fourteen feet in front only. Just the sprinkler for new flower beds, lawns, etc. Set it on the walk or next to the house and throw the water only where it is wanted. 60c, postpd.

#### No. 19 LAWN SPRINKLER



Non-corrosive; won't clog; with clean-out brass plug. Equal distribution of water over a large area. Base 8 inches. Can be pulled about the lawn without tipping. Price 75c each

### No. 10 Stationary Stick Stand Sprinkler



NO HOLES TO STOP UP

SPRAYS 30 to 35 Feet

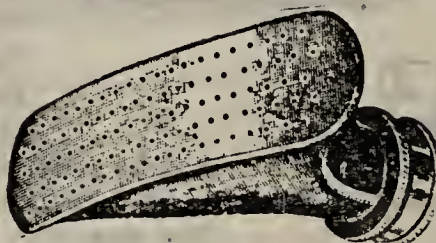
PRICE \$1.00 Postpaid



Blake No. 2.—Galvanized iron; tapped with 3/4-inch iron pipe threads; used extensively for irrigating purposes where necessary to connect sprinkler on 3/4-inch iron pipe.

Price 50c

### "FLARING ROSE" SPRINKLER

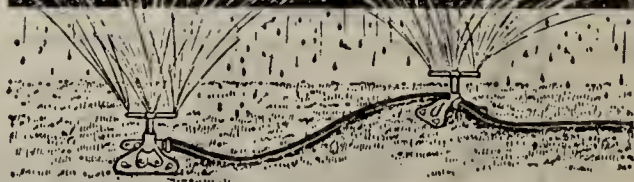


Its small perforations emit a fan-like sheet of tiny jets that are just like gentle rain.

When turned towards beds of plants or flowers, it does not cover the adjoining house or walk but goes right to the place desired.

Its fan-like shape makes it especially easy to handle. It is unexcelled for sprinkling small, grassy places. Each 65c, postpaid

## THE VILLAGE BLACKSMITH MARK



### 2 on 1 LINE OF HOSE

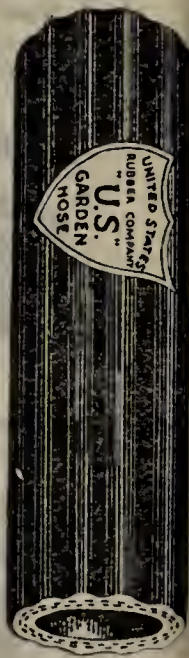
Spreads Water in Drops and Spray Evenly. Covering Approximately 40x20 Feet of Lawn.

Popularly Priced

2 in a Set . . . . \$2.00

#### GARDEN HOSE

Price, 1/2-in., 12c per ft; 3/4-in., 15c per ft. Couplings free in 10-ft. lengths and over.





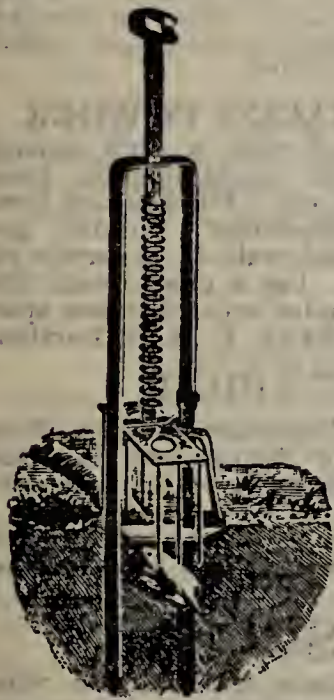
**OUT OF SIGHT MOLE TRAP**

Illustration showing position of trap properly set on deep runway

\$1.25, Postpaid

The Trap That Holds  
Can't Pull Out  
Can't Twist Out

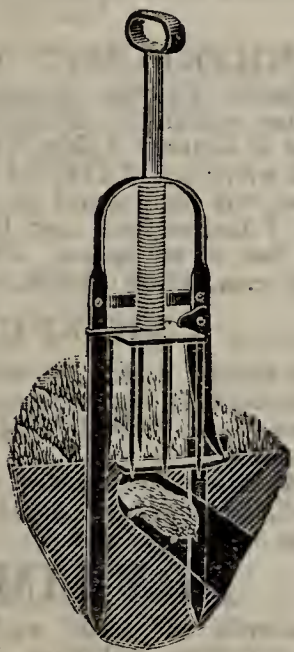
Can't Gnaw Free  
The Best Mole Trap Made  
\$1.25, postpaid



**REDDICK MOLE TRAP**  
No Mole Can Pass Under  
It and Live

These traps are strong and durable and worth the price to anyone troubled by moles.

Price \$1.25 each, postpaid



**LITTLE  
GIANT  
or SMALL  
REDDICK**

\$1.00 postpaid

**CRO-TOX****BIRD AND RODENT REPELLENT**

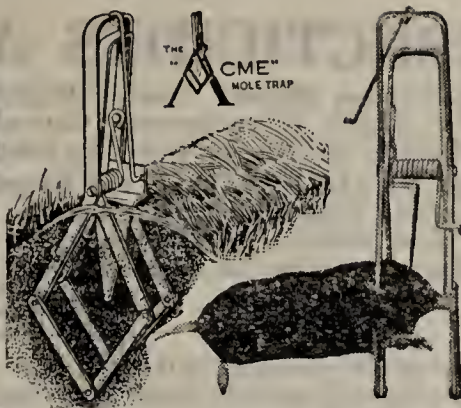
will protect your corn during the growing season by ridding your fields of crows, pheasants, blackbirds, and other corn pullers—from squirrels, woodchucks, moles, gophers, wire-worms, grub-worms, etc. They positively will not touch corn that has been treated with Cro-Tox.

**CRO-TOX IS NON-POISONOUS**

It does not kill birds or animals but is repellent to them—they will not go near corn that has been treated with Cro-Tox. It cannot injure seed in any manner. It will not clog any planter.

**LARGE CAN,** Treats 2 bushels of seed corn—\$1.00.

**SMALL CAN,** Treats 1 bushel of seed corn—60c.



The  
**MOLE  
PROBLEM**

can easily be controlled by the use of the latest trapping device. The

**ACME  
MOLE TRAP**

It is superior in all respects.

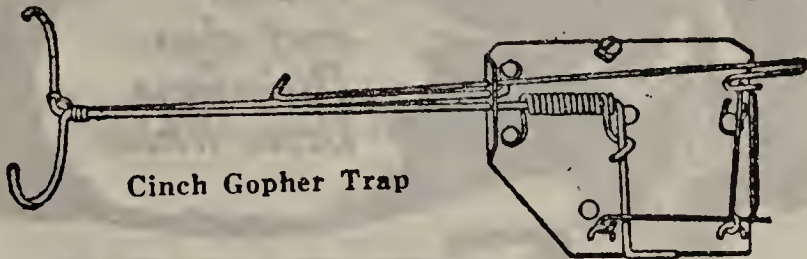
**SMALL,** weighs less than a pound.

**SURE,** to catch, hold and kill.

**EASILY SET,** women can set it.

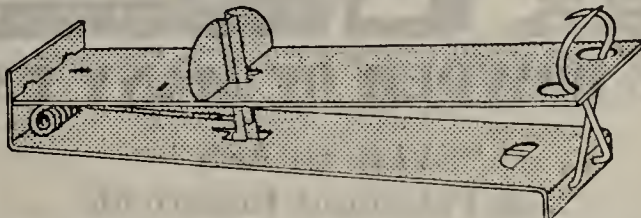
**RUST PROOF,** pins of brass and entire trap cadmium plated.

\$2.00, postpaid



Cinch Gopher Trap

Fits the hole, a sure killer, and the most satisfactory trap. Weight, 1 pound. Price, each, 75c postpaid



The Star Pocket Gopher Trap is the most efficient gopher trap made, combining all the best features of former devices.

The traps are of all-steel construction with rust-proof finish, and are most simple, and easily set.

By setting these traps in pairs, one facing either way, and as far back as possible in the gopher tunnels, success is assured. Each 35c, 2 for 60c, postpaid

**GAS BALLS—For Gophers or Moles**

For the extermination of Ground Squirrels, Gophers, Prairie Dogs and Moles.

**SAFE—SURE—ECONOMICAL**

Will not explode. Do not deteriorate. No danger to Live Stock, Domestic Fowls or Wild Game.

Hold the exterminator in mouth of squirrel's burrow, light the sharp edge with torch or match, after the ball is ignited and burning freely roll it as far as possible into the burrow. Cover the hole with clod of dirt, then with enough fine dirt to seal tightly so that none of the gas fumes can escape. Throw no fine dirt on the burning ball. Each 5c; doz. 40c, postpaid.

**WOOD-LARK SQUIRREL AND GOPHER POISON****Ready for Instant Use—Never Fails**

Is guaranteed the most reliable and destructive agent yet devised for the extermination of squirrels, sage rats, prairie dogs, pocket gopher, field mice and crows. Every kernel is warranted to kill. We will cheerfully refund the purchase price in every case in which it fails to satisfy. Should be used early in the Spring, when green food is scarce. Place a few kernels near the burrowing place of the animals. Care should be used in placing it so as not to destroy song birds.

Price: 1-lb cans, each 50c. Cannot be mailed.



## INSECTICIDES AND FUNGICIDES

**POMO-GREEN (The Green Massey Dust)**—Highly recommended for the control of black-spot, mildew, and other fungous diseases on Roses, Snapdragons, Carnations, Sweet Peas, Phlox, and Lilacs. Does not discolor the foliage. Dust once a week during the growing season. Lb. 50c; 5-lb. carton, \$2.00. Cannot be mailed.

**POMO-GREEN with NICOTINE (The Leaf-Green All-in-One Dust)**—A combination material which controls all fungous diseases and kills both eating insects and aphids. Requires no supplementary material for complete disease and insect pest control on all flowering plants. Leaf-green in color and never unsightly on plants. Both dusting and spraying directions on cans. Lb. 75c; 5 lbs. \$3.00. Cannot be mailed.

## CARBOLA

is a white paint and a powerful disinfectant combined in powder form. It is ready to use as soon as it is mixed with water. It can be easily and quickly applied to building interiors with spray pump or brush. Dries pure white. Does not flake or peel off.

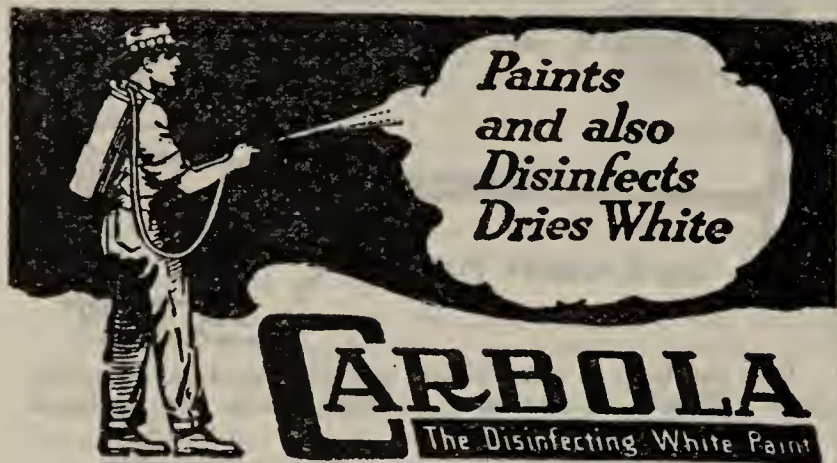
You just pour some of the Carbola powder into a pail of water and it is ready in a minute or two—absolutely no waiting or straining. It will not clog the sprayer, blister or peel off and doesn't spoil by standing even after it is mixed with water.

Carbola helps control disease germs, lice and mites. There is nothing better than Carbola to help make buildings clean, sweet-smelling and sanitary and it is specially recommended for use in poultry houses, kennels, creameries, stables, hog houses, factories, cellars, rabbit hutches, warehouses.

What the Hillcrest Everlay Farms say of Carbola: "Candidly we have found Carbola the best article of its kind we ever used. Aside from its disinfecting qualities, it is worth its cost as a whitewash. We have used the dry powder as a louse killer and find it very satisfactory. We spray our houses with it, dust our hens, dust the nests and brooders and use a thin mixture for washing out our incubators."

(Postpaid prices 1st, 2nd and 3rd Zone)

|                 |        |
|-----------------|--------|
| 5-lb. packages  | Each   |
| 10-lb. packages | \$0.75 |
| 50-lb. packages | 1.50   |
|                 | 6.25   |



## THE POWDER OF MANY USES

### "EVER GREEN"

#### Non-Poisonous Insecticide



**Sure Death to Plant Insects—Harmless to Man, Birds and Animals**

A sure killer of most plant insects—and yet offers no poison whatever to human beings, livestock or birds—it is positively not a poison. The active principle is Pyrethrum, or insect flowers, which has this valuable property of being deadly to nearly all insects. Especially recommended for killing Cut Worms, Cabbage Worms, Green Flies, White Flies, Thrips, Leaf Hoppers, Currant Worms, Aphids, Rose Chafer, Rose Slugs, Pear Slugs, Mealy Bugs, Mites, Red Spiders, Japanese Beetles, Leaf Tiers, Potato Beetles, Squash Beetles (Stink Bugs), Aster Beetles, Bean Beetles, Cucumber Beetles, Ants, Plant Lice, Melon Bugs.

#### PRICES NOT POSTPAID

1 oz. bottle 35c; 6 oz. bottle \$1.00; 16 oz. bottle \$2.00; 32 oz. bottle \$3.50; 1 gal. bottle \$11.50.

### DIAMOND L EARWIG POWDER

An effective insecticide to be dusted on runways. Insects are killed by contact.

2 lb. tin \$1.00 f. o. b. Portland; cannot be mailed.

### DIAMOND L FLU-SI DUST

Used effectively for controlling earwigs, tree crickets, sow bugs, roaches, ants, cutworms, snails, cabbage worms and corn-ear worms.

2 lb. tin \$1.50 f. o. b. Portland

### KILL ANTS QUICK!

with

### ANTROL ANT POWDER

This new improved powder kills ants, roaches, silverfish and other pests quicker by actual test. Packed in handy shaker, twist top can. Recommended for quick temporary relief in apartments, camps and summer homes, etc. Price, 3-oz. can 15c.

### HAMMOND'S GRAPE DUST

To prevent mildew on roses, grapes and gooseberries. 1-lb. pkg. 35c; 5-lb. pkg. \$1.00, postpaid \$1.15

### "BLACK LEAF 40"

|                                 |        |
|---------------------------------|--------|
| 1 oz., 6 gals. spray            | \$0.35 |
| 5 oz., 25 to 100 gals. spray    | 1.00   |
| 1 lb., 80 to 240 gals. spray    | 2.00   |
| 2 lb., 150 to 500 gals. spray   | 3.00   |
| 5 lb.                           | 5.85   |
| 10 lb., 800 to 2500 gals. spray | 10.15  |

Cannot be mailed.

### "NICO-FUME" TOBACCO POWDER

Tobacco Powder impregnated with a high strength nicotine solution. Effective for fumigating in greenhouses to destroy Aphids, Thrips, etc. Fill 2½-inch flower pot heaping full of "Nico-Fume" Powder, pour powder out on ground or cement walk in a narrow pile about 7 inches long and light. Use a pile to each 5000 cubic feet of air space. Place piles equal distance apart.

5-lb. can, \$3.50; 10-lb. can, \$6.15, F. O. B. Portland.

### "NICO-FUME" LIQUID

The purest and most refined nicotine product offered for spraying, vaporizing and fumigation in Green Houses. Our Florists like Nico-Fume better than other preparations.

Nico-Fume Liquid for spraying or vaporizing: 1-lb. tin, \$2.25; 4-lb. tin, \$5.85; 8 lbs. (gal.), \$10.85; (Cannot be mailed.)

## DRY LIME SULFUR

Controls all scale and fungus diseases for which Lime-Sulphur Solution is recommended. More convenient to handle and saves freight on water. Put up in air-tight packages, which should be used when opened. For Winter Spray use 10 to 14 pounds to fifty gallons of water. For summer, in combination with Arsenate of Lead, use 2 to 3 pounds to fifty gallons of water.

Price: 1 lb., 30c; 5 lbs., \$1.25; 10 lbs., \$2.00; 25 lbs., \$3.75; 100 lbs., \$12.50. Postage extra.



### HAMMOND'S SLUG SHOT —

Used from Ocean to Ocean. A light, composite, fine powder, easily distributed either by dusters, bellows, or in water by spraying. Thoroughly reliable in killing Currant Worms, Potato Bugs, Cabbage Worms, Chicken

Lice, Slugs, Sow Bugs, Mexican Bean Beetle, Army Worm, and it is also strongly impregnated with fungicides.

1-lb. package 25c; 5-lb. package 75c, postpaid for 90c



# INSECTICIDES AND FUNGICIDES, Etc.

## ARSENATE OF LEAD (Dry)

For dusting and spraying. Solves the problem of controlling practically all leaf-eating insects in an efficient manner. Write for price.

## FUNGI-BORDO (Bordeaux Mixture)

In powdered form, mixes perfectly with cold water. For peach, tomato and potato blight, all fungus diseases. Write for price.

## FORMALDEHYDE

### Treat Your Seed With Formaldehyde

A preventive for smut in grain—scab and fungus diseases or potatoes.

Formaldehyde is a clear chemical, resembling water, but has a peculiar odor. It is sold by the pound (pint). One pound is sufficient to treat 40 to 50 bushels of oats.

Prices: Pints, 60c; quarts, \$1.00; express or freight at purchaser's expense; cannot be mailed.

## SULPHUR

For Dry Dusting of Trees, Vines, Etc., Bleaching Fruit, etc.

It has been proven and so recommended by the University of California that if you sulphur your grape vines and orchards six times they will not be affected by Mildew or Red Spiders and rust. Write for price.

## TREE TANGLEFOOT

A sticky compound to band trees or large plants to prevent crawling insects from going up the stalks or trunks. Prices: 1-lb. can 60c; 5 lbs. \$2.75; 10 lbs. \$5.25. Postage extra.

## WHALE OIL SOAP (Fish Oil)

This is not only an excellent insecticide for killing plant lice and fungus growth, but should be mixed with most all liquid sprays as it causes the spray to adhere much better to the leaves. 1 lb., 25c. Write for quantity price.

## SNAROL

A meal that quickly destroys cutworms, sow bugs, earwigs, grasshoppers, snails and slugs.

Merely sprinkle Snarol around and under planted vegetation. Insure them against destruction. Will not in any way destroy plants and rain does not destroy its value.

Look over your premises at once—note if any of these pests are present. If so, take steps immediately to destroy them for they quickly multiply, and once they become active they will soon overrun your grounds.

### PRICES—SNAROL

|                              |        |
|------------------------------|--------|
| 1½-lb. pkg. (for small area) | \$0.35 |
| 4-lb. pkg.                   | .75    |
| 15-lb. bag                   | \$2.50 |

Cannot be mailed.

## SULPHUR CANDLES

Sulphur Candles—These will burn for 3 hours and are fine for fumigating hen houses and dog kennels, killing all vermin. Price: 15c each, postpaid

## PARIS GREEN

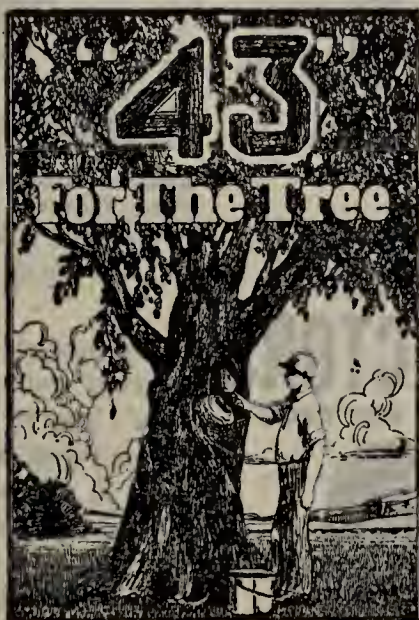
Directions for use: Four to six ounces to fifty gallons of water. Or two teaspoonfuls to one gallon of water. For cut worms and grasshoppers add one tablespoonful of Paris Green to ten pounds of bran and spread about the base of the plants. It is always well to add ¼ lb. Paris Green to each barrel of Bordeaux when spraying tomatoes. Write for price. Cannot be sent by mail.

## "43" FOR THE TREE (Liquid) (An Antiseptic, Pruning Compound)

A penetrating speedy brush application for coating over, sawed-off limbs, and surface bruises. Excellent for nursery men, fruit growers, home-owners, tree-surgeons, etc. A heavy liquid that forms an air-tight coating over the wound, and makes the healing of the cut easy for nature.

Contains practically the same antiseptic oils approved for expert tree surgery work as are used in "43" (Plastic). Antiseptic odor prevents small animals from peeling bark off young fruit trees. An economical tree dressing per tree coated. Color black.

|              |        |
|--------------|--------|
| 1 Pint Can   | \$0.40 |
| 1 Quart Can  | .75    |
| ½ Gallon Can | 1.25   |
| 1 Gallon Can | 1.75   |



## MAGGOTBATE

### You Can Control Root Maggot

Easily applied, inexpensive, not harmful to plant life; but a valuable fertilizer and stimulant in powder form. Absolutely protects cabbage, radishes, turnips, onions, etc.

Price: 2-lb. carton, 25c; 25-lb. bag, \$2.25; postage extra.

## BLUE STONE

(Sulphate of Copper)

Applied in time it will prevent mildew and all fungus diseases. Also prevents smut on barley and wheat, by soaking seed to be planted in a solution of 1 lb. to 6 gallons of water for ten or fifteen minutes. May be sent by parcel post. Write for price.



## VEGETABLE SPRAY

For destroying and preventing maggots, grubs and worms that infest turnips, radishes, beets, rutabagas, cabbage and cauliflower, etc., also recommended for combating crown borers in strawberries. ½ pt. 50c; pt. 75c; qt. \$1.25; gal. \$2.75.

## A Successful Remedy for Cabbage Maggot

## Napthalene

### For Use in Treating Soil for Insect Pests

Used by truck gardeners, bulb growers and for field crops to drive away grubs, wire worms, slugs, centipedes, aphids, etc. Safest, most powerful insect repellent that can be used in quantities at low price. In granulated form, with strong odor like moth balls. Has been used in Europe for years. Drives off caterpillars, stupifies insects. Use it mixed in the soil according to directions. Send for full information.

Prices: 1-lb. can 25c; 5 lbs. 75c; 10 lbs. \$1.25; 25 lbs. \$2.25; 50 lbs. \$4.00; 100 lbs. \$7.50; F. O. B. Portland.

# ATLACIDE NON-POISONOUS WEED KILLER

|  |             |
|--|-------------|
| 1-lb. DUSTER   | 50c Each    |
| (kills 100 square feet of weeds)                       |             |
| 3½-lb. DUSTER  | \$1.50 Each |
| (kills 350 square feet of weeds)                       |             |
| Bulk sizes for refilling duster or for making solution |             |
| 50-lb. Drum  | \$ 7.00     |
| (kills 5,000 square feet of weeds)                     |             |
| 100-lb. Drum   | 14.00       |
| (kills 10,000 square feet of weeds)                    |             |
| 200-lb. Drum   | 27.00       |
| (kills 20,000 square feet of weeds)                    |             |

The Atlacide is especially adapted for killing weeds in paths, driveways, tennis courts, brick walks, gutters, in fence corners, along stone walls, etc. It kills all weeds and grasses including Johnson Grass, Wild Morning Glory, Quack Grass, Canada Thistle, Poison Ivy, etc.

## "43" FOR THE TREE (Plastic) (A Scientific Cavity Filler for Trees)

Keep your trees beautiful and productive. For a decayed trunk or limb, fill the wound easily and quickly with this scientific, healing plastic compound. Contains about 18 ingredients especially used to combat disease, protect and waterproof the wound, and aid the growth of the tree. Comes ready for use. Anyone can most economically apply "43" with good results.

Sets firmly yet pliable, and helps the tree heal well around the injury allowing for natural growth. Does not sag away from crotch or cavity.

|                        |        |
|------------------------|--------|
| 1-lb. Can (Pint Can)   | \$0.40 |
| 2½-lb. Can (Quart Can) | .75    |
| 5-lb. Can (½-Gal. Can) | 1.25   |
| 10-lb. Can (Gal. Can)  | 1.75   |



## ADCO



## ARTIFICIAL MANURE

(Patented in the United States and Abroad)

ADCO is a powder which, when mixed with almost any non-woody vegetable waste and kept moist, gradually converts the mass into real manure fully equal to the farmyard product in fertilizing power, but free from foul odor, flies, weed-seeds, etc. The process is perfectly simple and not at all laborious.

GARDENERS can now have plenty of manure at low cost and little trouble.

FARMERS, by utilizing straw, corn stalks, etc., can secure their manure without the expense and labor of maintaining live-stock.

PRICE, F. O. B. PORTLAND

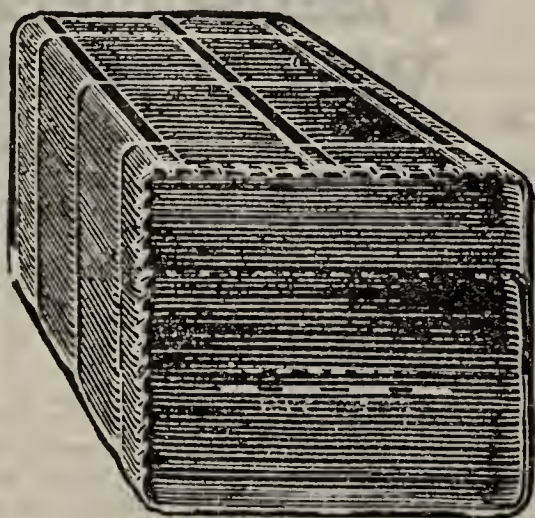
ADCO, in 150-lb. bags, each .....\$11.00  
(Enough for a heap 10 ft. x 10 ft. x 6 ft.,  
making about three tons of manure)

ADCO, in 25-lb. bags, each .....\$2.35  
(Enough for 12 wheelbarrow loads of garden  
waste, making one-half ton of manure)

## PEAT MOSS NATURE SOIL IMPROVER

—It is a fine material for storing dahlia roots, tubers and bulbs and packing them for shipment.  
—It is economical to use. One bale will spread three hundred square feet, one inch deep.

**PEAT Makes  
Poor Soil Good  
and Good Soil  
Better**



Peat Moss is packed in bales of standard size and bulk, with minimum moisture content. The material in a bale will cover 340 square feet one inch deep.

In making new lawns, apply from three to six inches of Peat Moss and work it into the soil. An even germination of the grass seed will be obtained and a thick turf will soon develop.

**Price per Bale, \$2.50**

F. O. B. Portland



## CEL-O-GLASS

Here is a most useful and durable material, which is recommended for use in place of glass—anywhere. CEL-O-GLASS is unbreakable; it is hailproof, rainproof,

heatproof, coldproof, rustproof and very light in weight. It is ideal for cold frames, hotbed sash, garage and barn doors and windows—any place where you need light and protection from the weather. Easy to use—simply tack it up; no glazing, no trouble, no breakage. CEL-O-GLASS is shipped in rolls 3 feet wide and 100 feet long. We cut in any length. Price 14c per square foot.

## National EEZY Wear Garden Gloves



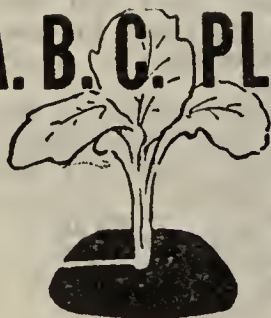
**ALL-LEATHER  
Soft as Kid  
Easy to Wear**

Made from special imported hides processed to render them amazingly soft and pliable. Permit almost bare-hand freedom yet provide complete all-leather protection. Ideal for garden and similar uses.

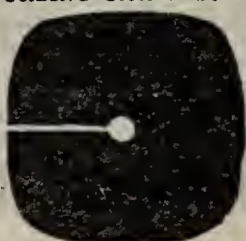
**Dirt-proof  
Durable - Washable**

Four sizes: "SMALL" and "MEDIUM" for Women, "MEDIUM" and "LARGE" size for Men. Price, 75c a pair—2 pairs for \$1.40. This is the first time we have ever offered an all-leather garden glove with these special qualities at such a low price.

## A. B. C. PLANT PROTECTORS



**SPECIAL NON-CURLING TAR FELT PADS  
PROTECTS  
FROM  
CABBAGE  
ROOT  
MAGGOT**



No maggot fly will be able to lay eggs around the stem of your young plants if you use A B C Protectors. You won't lose 10 to 30 and 40 per cent of the planting, by the stems being eaten away. Last year A B C Protectors were used in all parts of the United States and Canada, many customers reporting that A B C's produced anywhere from 90 to 100 per cent crops.

Per doz. 10c; per 50, 30c; per 100, 40c; per 500, \$1.50; per 1000, \$3.00.



# FERTILIZERS FEED THE SOIL AND IT WILL FEED YOU

Enjoy Better Lawns, Flowers and Gardens by Using

CLEAN,  
ODORLESS,  
EASY TO  
APPLY.

## VIGORO

100-lb. bag .....\$5.00  
50-lb. bag ..... 3.00  
25-lb. bag ..... 1.75  
10-lb. pkg. .... .85  
5-lb. pkg. .... .50  
Not prepaid.

A SQUARE MEAL for  
YOUR LAWN  
is 4 lbs. of VIGORO  
Per 100 square feet.

# MORCROP

## THE FERTILIZERS for NORTHWEST CONDITIONS

Made to feed crops uniformly from planting time to maturity.

### LUX MORCROP, 5-6-8.

Rich in both Nitrogen and Potash.  
For—Truck Crops, Hops, Fruits, etc.

100 lb. bag \$2.75  
—Cheaper in quantity.

### MASTER MORCROP, 3-10-10.

Rich in Phosphates and Potash.  
For—Potatoes, Cherries, Pears, etc.

100 lb. bag \$2.75  
—Cheaper in quantity.

### KING MORCROP, 3-10-7.

The ideal analysis for general use  
on Farm Crops, Berries, etc.

100 lb. bag \$2.50  
—Cheaper in quantity.

### LAWN MORCROP, 6-1-1.

Made especially for lawns, keeps  
grass green and in healthy growing  
condition. Its repeated use dis-  
courages weeds.

50 lb. bag \$1.50

### GARDEN MORCROP, 8-10-5.

This fertilizer is different from all  
other garden fertilizers. Very rich  
in all plant foods and full of humus  
to build up your garden soil. Helps  
hold moisture in summer and keeps  
the soil loose. For all garden uses.

Cartons at 35c—65c and \$1.15.  
25 lb. bag \$1.70—50 lb. bag \$2.85.

MORCROP Tablets for houseplants and ferns, 10c; 25c; \$1.00.

## FERTILIZERS

### Uses of Main Plant Foods

**Nitrogen.**—Promotes leaf and stem growth; increases proportion stalk to fruit, and hastens blooming. An excessive amount delays maturity.

**Phosphoric Acid.**—Stimulates early root formation; gives vigorous start to plants; increases ratio fruit to stalk; improves quality of fruit and hastens maturity of crop.

**Potash.**—Is important in sugar and starch formation; gives stiffness to stalk; helps plants to resist disease, and improves quality of fruit.

## STIMUGERM LEGUME INOCULATION

Cut Down Your Fertilizer Bills  
Get Your Nitrogen from the Air

Nitrogen is the most expensive ingredient in the fertilizers you buy, although it is plentiful in the air. When legume crops are inoculated with STIMUGERM this nitrogen is stored in nodules on the roots.

## STIMUGERM

Legume Inoculation

Increases the yield and improves the quality of the crop on which it is used.

It adds to the nitrogen supply in your soil—nitrogen is the most expensive ingredient in the fertilizers you buy.

Its use gives quicker growth and earlier maturity.  
It increases the permanent value of your farm.

### ORDER BY NUMBER

No. 1. For Red, Mammoth, Alsike, Crimson and White Clovers.

No. 2. For Alfalfa, Sweet and Bur Clovers.

Price Nos. 1 and 2— $\frac{1}{4}$  bu. size 35c;  $\frac{1}{2}$  bu. size 60c; 1 bu. size \$1.00;  $2\frac{1}{2}$  bu. size \$2.25; 10 bu. size \$8.00.

No. 3. For Vetch, Canada Field Peas, Garden Peas and Sweet Peas.

No. 8. For Garden Beans and Navy Beans.

Price Nos. 3, 7, 8 and 9— $\frac{1}{2}$  bu. size 35c; 1 bu. size 60c; 5 bu. size \$2.25.



## MORCROP TABLETS for Milady's Houseplants

Highly concentrated, complete fertilizer in tablet form for convenient application. Odorless, clean and quickly water soluble. The action is rapid and both foliage and bloom is improved. Equally effective in the garden.

Package 10c, Postpaid

## STIM-U-PLANT

PLANT STIMULANT TABLET

A highly concentrated odorless fertilizer for the vegetable and flower garden, shrubs and house plants. The analysis is guaranteed 11 per cent nitrogen, 12 per cent phosphoric acid, 15 per cent potash, an ample amount of each plant food to insure a quick and strong growth of all plants.

30-tablet pkg. 25c; 100-tablet pkg. 75c; 1000-tablet pkg. \$3.50, postpaid.

## SPECIAL

## STIMUGERM

LEGUME INOCULATION

A special garden size for peas, beans and sweet peas. Will insure you large, luscious peas and beans, and abundant sweet pea blossoms for gorgeous coloring. Price 25c

We also carry in stock and would be pleased to quote prices on

BLOOD MEAL  
BONE MEAL  
NITRATE of SODA  
SHEEP GUANO  
SULPHATE of AMMONIA

SUPERPHOSPHATE  
LAND PLASTER  
MURIATE of POTASH  
SULPHATE of POTASH  
LIME, Etc.



## PLANET Jr. GARDEN TOOLS

Space will permit our describing only a few Planet Jr. Tools, but we will send to all who ask for it a fully illustrated catalogue of Planet Jr. Garden Implements.



### No. 25 PLANET JR.

Combined Hill and Drill Seeder and Double Wheel Hoe, Cultivator and Plow. Valuable for gardeners who have enough acreage for a double wheel hoe. Combines in a most practical way the No. 4 Drill and No. 12 Double and Single Wheel hoe. Holds  $2\frac{1}{2}$  quarts of seed. Weight packed, 61 pounds. Price \$21.00.



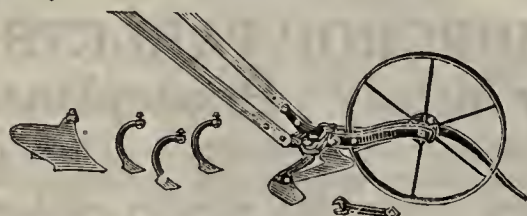
### No. 11 PLANET JR.

Double Wheel Hoe, with 2 pairs hoes, 2 pairs cultivator teeth, 2 pairs rakes, 1 pair plows and 1 pair leaf lifters. Price \$13.50.



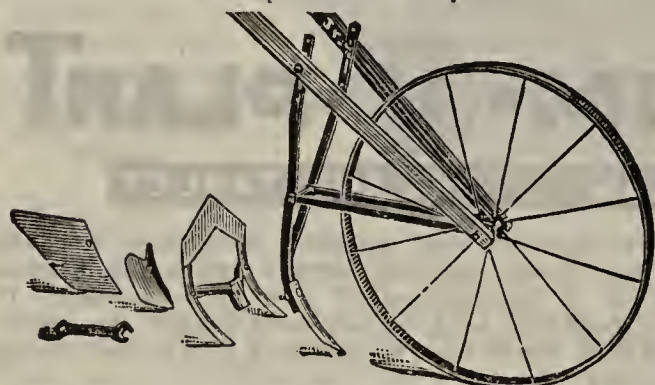
### No. 16 PLANET JR.

Single Wheel Hoe with 1 pair hoes, 3 cultivator teeth, 2 rakes 1 plow and 1 leaf guard. Price \$9.00.



### No. 17 PLANET JR.

Single Wheel Hoe, with 1 pair hoes, 3 cultivator teeth and 1 plow. Price \$7.75.



### No. 119 PLANET JR. GARDEN PLOW AND CULTIVATOR

This new member of the "Planet Jr." family will appeal to all those who prefer a high wheel tool for their garden work. Where the soil has not been so thoroughly and carefully prepared the high wheel undoubtedly makes an easy running tool.

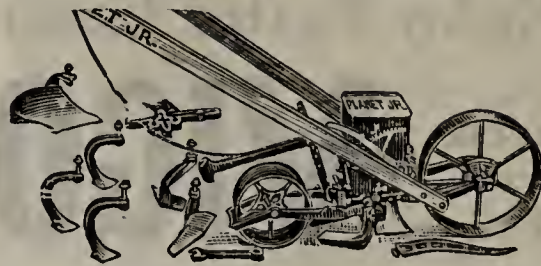
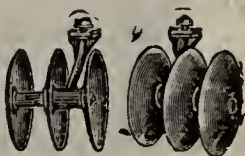
The wheel is 24 in. in diameter with a rim  $1\frac{1}{2}$  in. wide, insuring easy running in the lightest soil.

The equipment is so complete that it will meet all the needs of the ordinary garden, where the adjustments and refinements of the higher priced Wheel Hoes are not required. Price \$4.50.

### DISC HOES

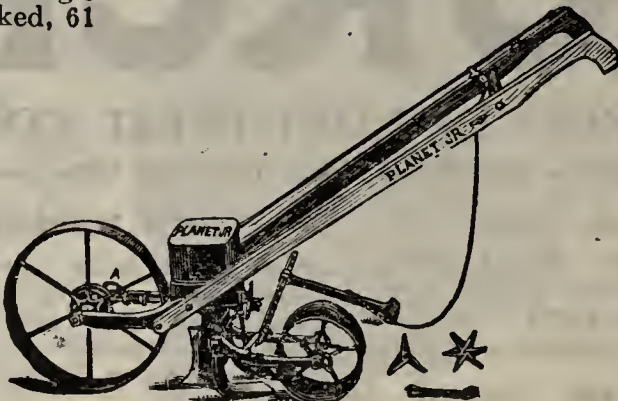
Adjustable, cuts and turns the soil, throws to or from the rows.

Price, pair \$3.50.



### No. 4 PLANET JR.

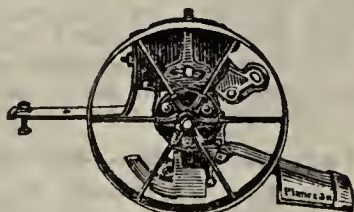
Combined Hill and Drill Seeder, Wheel Hoe, Cultivator and Plow. This tool combines in a single convenient implement, a capital hill-dropping seeder, a continuous row seeder, single wheel hoe cultivator and garden plow. Holds  $2\frac{1}{2}$  quarts of seed. Weight 50 pounds. Price complete, \$15.00. As Seeder only, \$14.00.



### No. 3 PLANET JR.

#### Hill and Drill Seeder

A favorite among onion growers, market gardeners and seedsmen. The special force feed is admirable, working equally well whether sowing with an ounce or a full hopper. 15-inch Steel Driving Wheel. Holds 3 quarts of seed. Weight packed, 43 pounds. Price \$17.00.



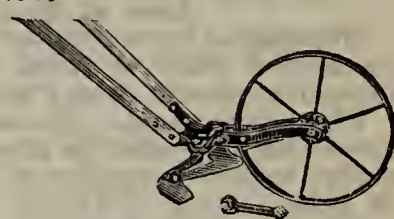
### PLANET JR. SEEDER ATTACHMENT No. 35

For hot-bed or greenhouse work. Can also be attached to the 119 Wheel Hoe or all Single and Double Wheel Hoes. Without Handle..\$6.00 With Handle.... 6.50



### No. 12 PLANET JR.

Double Wheel Hoe, with 1 pair hoes, 2 pairs cultivator teeth, 1 pair plows and 1 pair leaf lifters. Price \$10.50.



### No. 18 PLANET JR.

Single Wheel Hoe, with 1 pair hoes only. Price \$5.75.

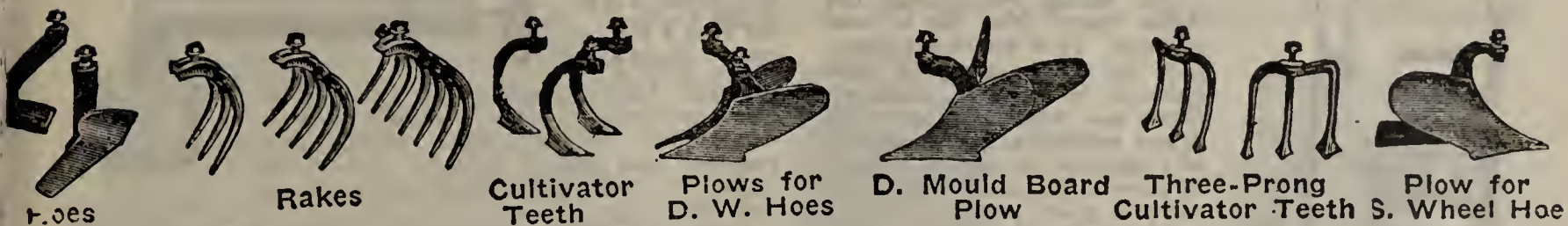


### No. 4 IRON KING SEED DRILL

For Onion Growers—A well-made, durable, easy running machine, accurate and reliable, will save the price of the machine in sowing a few acres. If you are growing onions you cannot afford to be without one. Also for lettuce, spinach, beet, cabbage and will sow anything from turnips to peas. Weight packed 45 pounds. Price \$16.00.



## Cultivating Attachments for Planet Jr. Tools



**Hoes.** C and D1 for cast frame wheel hoes. C11 and D11 for steel frames. Made in four widths. Cutting 4½-inch, per pair, \$1.20; 6-inch, per pair, \$1.30; 7-inch, per pair, \$1.60; 9-inch, per pair, \$1.75.

**Peat Land Hoes.** Like the C & D Hoes, but with extra wide high shields to prevent dirt from falling back and covering the plants. 6-inch cut only, per pair, \$2.60.

**Double Mouldboard Plow.** It can be set to furrow wide or narrow, or to hill much or little. Width at widest, 14 inches; narrowest, 10 inches. Each, \$2.40. With connecting piece for double wheel hoes and No. 25, 85c extra.

**Plows for Double Wheel Hoes.** M4 and N4 for cast frames, M5 and N5 for steel frames. Per pair, \$1.40.

**Cultivator Teeth.** No. 1395. Fit combined seeders and double and single wheel hoes. Each 40c.

**Plows for Single Wheel Hoes.** R3 for cast frames, R6 for steel frames. Each \$1.35.

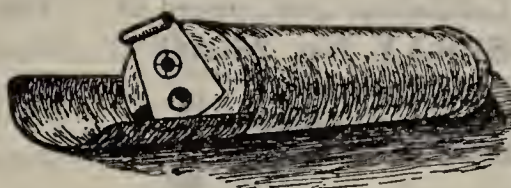
**Three-Prong Cultivator Teeth.** For fine, deep work. Per pair, \$1.75.

**Onion Harvester.** 8-inch size for onions and onion sets. These make splendid weeders. Each, \$1.60.

**Rakes.** Made in 3 sizes. Three-tooth, per pair, \$1.30; five-tooth, per pair, \$1.70; seven-tooth, per pair, \$2.40.

**Note—All attachments on this page will fit Planet Jr. Single and Double Wheel Hoes and Combined Seeders and Wheel Hoes, excepting Nos. 19, 31, 33, 60, 65 and 66.**

### THE ECONOMICAL SEEDER



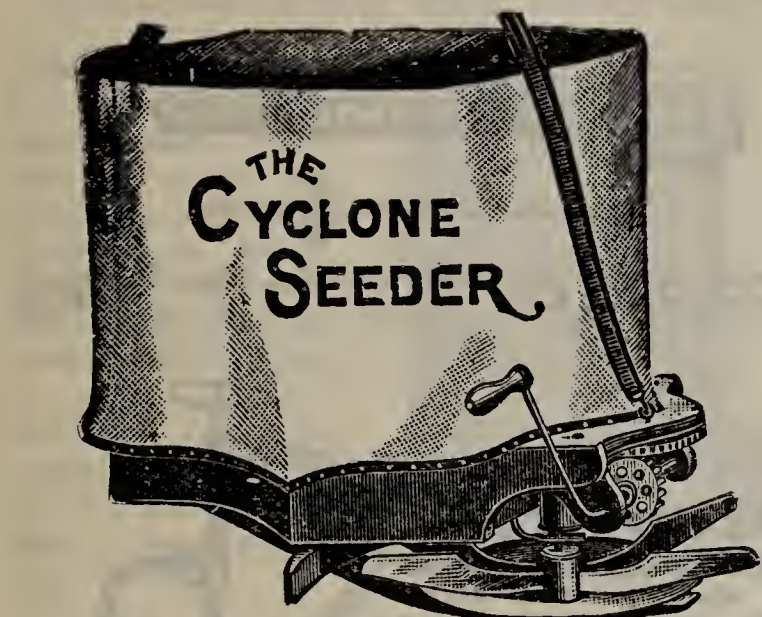
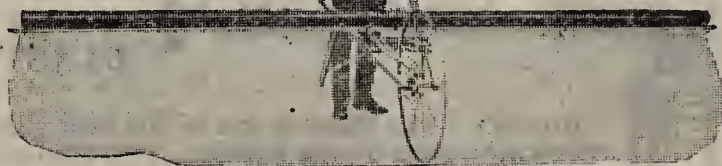
A handy little tool which will be found useful and economical in sowing all fine seeds. It is made of zinc and measures 4¾ inches over all.

The instrument is small enough to be held in the palm of the hand and the amount of seed is controlled by a simple action of the thumb, operating a slide regulating the flow of the seed. It has a capacity of one ounce of aster seed and more or less of other seed according to size. It is especially recommended for sowing finer flower seeds, such as begonia, calceolaria, cineraria by florists and all the smaller vegetable and flower seeds in the garden. Each 60c, postpaid.

### FASTEST OF ALL GRASS SEEDERS

**Thompson's  
Seeder No. 11  
\$15.50 Each**

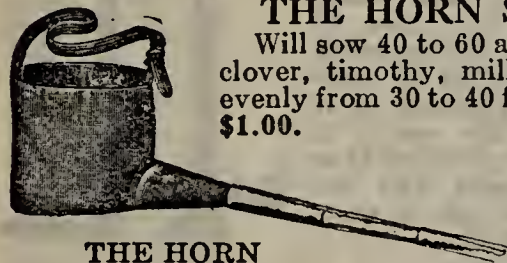
For broadcasting Grass, for sowing Red Top, Clover, Timothy and all mixed seeds. Light, strong and simple.



Will sow Timothy, Clover, Wheat, Oats, Rye, Buckwheat, Hungarian, Red Top, Millet and all other grains and seeds perfectly even, and any desired amount to the acre, and from 40 to 60 acres a day. Price \$2.25.

### THE HORN SEED SOWER

Will sow 40 to 60 acres per day of alfalfa, clover, timothy, millet, etc. Spread seed evenly from 30 to 40 feet. Price, postpaid, \$1.00.



THE HORN

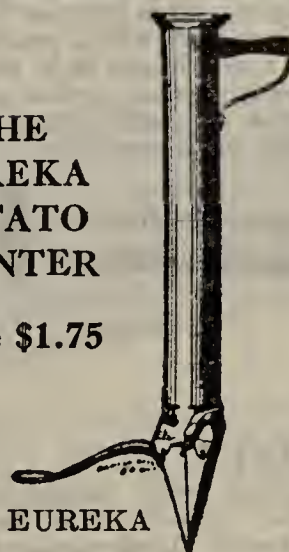


No. 220  
Fertilizer  
Distributor

Capacity one bushel. Will distribute 100 to 2000 pounds of commercial fertilizer to the acre. Six adjustable spouts spreading from four to thirty inches. Equipment includes plates for closing up four spouts or three spouts on left side. Hopper placed well forward over wheel making lighter load and easier pushing. Feed can be opened and closed without stopping. Price \$27.00.

### THE EUREKA POTATO PLANTER

Price \$1.75



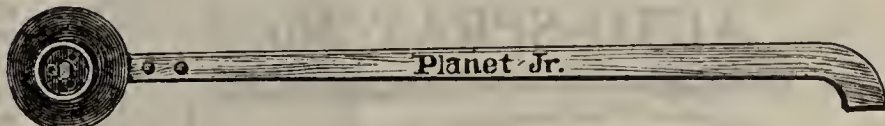
EUREKA



THE PINGREE  
POTATO PLANTER  
\$1.25 each

For Corn Planters see page 13.

### No. 2 PLANET JR. EDGER



Neatness is the great secret of attractiveness in grounds surrounding a house, and to have this neatness the grass bordering walks must be frequently edged or trimmed. With the No. 2 Planet Jr. Edger you can edge either straight or curved walks of cement, stone or brick, rapidly and easily. Weight 3¼ lbs.

The edging disc is made of high grade steel and will last for years. Price \$1.60.

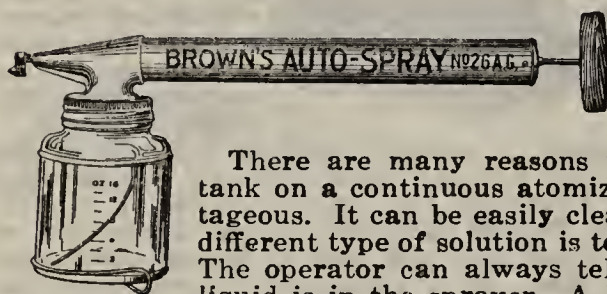




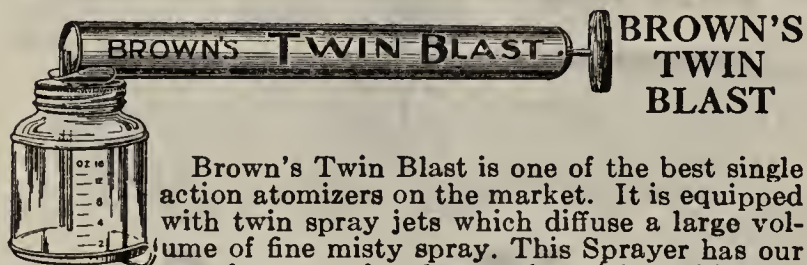
**AUTO SPRAY No. 50**  
We highly recommend the Auto Spray No. 50 to our patrons. It is extremely desirable for use in spraying agricultural insecticides, disinfectants and where the spraying is not extensive, and is especially adapted for use by women or persons physically unable to carry a great weight. Tank is constructed of heavy sheet brass or strong copper bearing galvanized sheet steel. Pump cylinder is of one-piece seamless brass tubing. This Sprayer has the screw lock and drain-dry features found in the Auto Spray No. 9. Capacity, 2½ gallons.

Auto Spray No. 50B, Brass Tank, priced at.....\$ 9.00  
Auto Spray No. 50D, Galvanized Tank, priced at 6.00  
Capacity—four gallons.  
Auto Spray No. 9B, Brass Tank, priced at ..... 10.00  
Auto Spray No 9D, Galvanized Tank, priced at.... 7.00

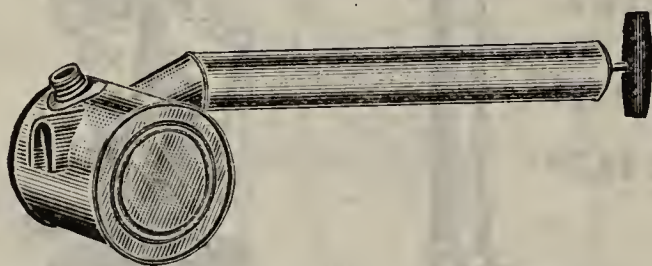
### AUTO-SPRAY No. 26-AG



There are many reasons why a glass tank on a continuous atomizer is advantageous. It can be easily cleaned when a different type of solution is to be sprayed. The operator can always tell how much liquid is in the sprayer. A long felt demand for a continuous atomizer with a glass tank prompted us to build this sprayer. The jar on this sprayer has a standard Mason fruit jar thread. Additional jars are easily obtainable. This atomizer has all the mechanical advantages of the Auto-Spray No. 26-A, B and C with the added advantage of the glass tank. We forecast the Auto-Spray No. 26-AG will eventually be the most popular continuous atomizer on the market. Capacity one quart. Price \$1.30.



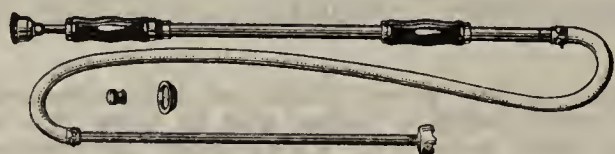
**BROWN'S TWIN BLAST**  
Brown's Twin Blast is one of the best single action atomizers on the market. It is equipped with twin spray jets which diffuse a large volume of fine misty spray. This Sprayer has our new feature—the glass tank which enables the operator to know exactly how much liquid is in the container and because it is more easily cleaned, makes possible the spraying of different solutions. Capacity, 1 quart. Brown's Twin Blast, tin cylinder, glass container. . . . 80c



### THE "MISTY"

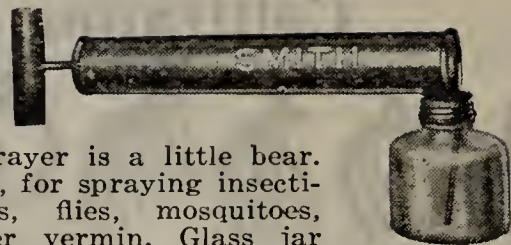
A general purpose Sprayer for farm, stable or garden uses. Handles fly-oils, bug poisons and disinfectants. Has large powerful pump. Lock seamed can. Made of heavy tin. Tank 4x4½-in. Length over all, 21 inches. Holds one quart.  
No. 22, price each, postpaid.....60c  
Gem, pint size .....50c

### AUTO-SPRAY No. 5



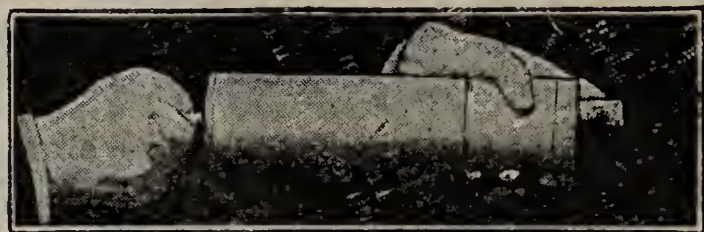
The Auto-Spray No. 5 is a double acting high pressure sprayer that can be used with any pail or bucket. It is generally acknowledged to be the most powerful pump of its type manufactured. Generates a pressure of over 200 pounds with remarkable ease. Price \$4.25

### No. 4 CUB GLASS JAR SPRAYER 25c, postpaid



Smith CUB Sprayer is a little bear. For household use, for spraying insecticides, for moths, flies, mosquitoes, roaches and other vermin. Glass jar unscrews from pump for easily filling and cleaning.

Pump Chamber—Heavy tin. Glass Jar—Unscrews from pump for cleaning and filling. 25c, postpaid



### FEENEY DUST GUN

The dust cloud from a Model B Duster covers every surface of the thing that is to be dusted—top, sides, underside and all—hunts every crack and crevice—nothing escapes being treated—it does the job completely. Price \$1.00

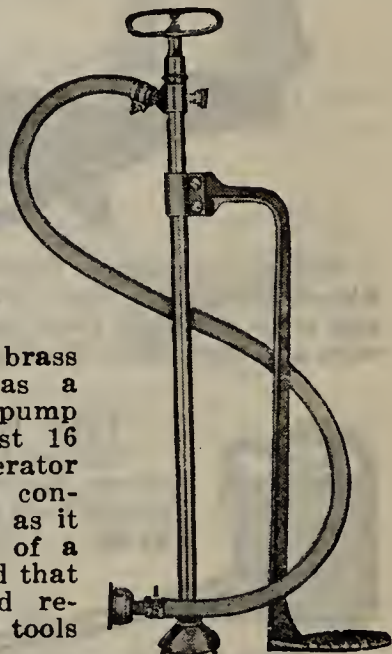


Brown's Crystal Duster, tin cylinder, glass container, extension. Capacity, 1 quart.....\$1.35

### AUTO SPRAY No. 6

#### Double Acting Bucket Pump

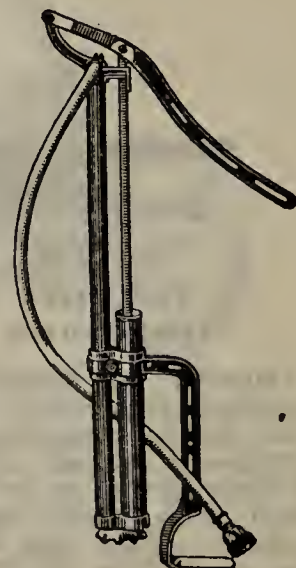
A most powerful bucket pump, easily generates a pressure of 200 pounds. It is double acting, producing a continuous spray. Made of brass and is equipped with a brass suction strainer as well as a strainer in the nozzle. The pump is equipped with a foot rest 16 inches high, enabling the operator to use almost any bucket or container. This is an advantage, as it does not necessitate the use of a special bucket. So constructed that it may be taken apart and re-assembled without the use of tools of any kind. Price \$5.00.



### AUTO SPRAY No. 7

#### With Lever Bucket Handle Pump

The lever handle and large air chamber make this the most powerful bucket pump and the easiest one to operate. All working parts are solid brass with brass ball valves and patent agitator. Fitted with graduating nozzle to throw a fine or coarse spray or a solid stream. Weight, 8 lbs. Price, \$7.

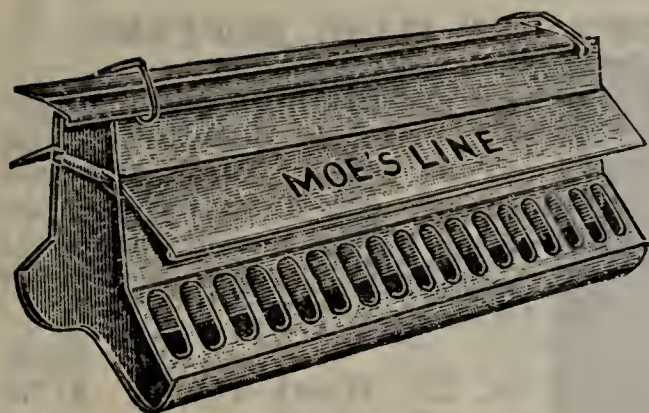




## POULTRY SUPPLIES

ROUND FOUNTAIN

MAGAZINE FEEDER



## BIG BOY FEEDERS

Especially designed for growing stock—three to four week chicks—and up to full-grown fowl. Big capacity, about 75 pounds of dry mash, with large wide feeder openings, smooth rounded edges.

Can be placed on the ground or suspended by wire handles. Length, 33 in. with 34 feeder openings.

No. 160—Without the wide covers Each \$4.00

No. 161—With wide adjustable covers

(as shown), ..... Each \$4.50



The round taper shape prevents damage from freezing. Made in two pieces accurately formed. Galvanized steel. Easily filled and cleaned.

No. 19—Capacity, 1 quart;  
Each \$0.25

No. 20—Capacity, 2 quarts;  
Each \$0.35

No. 24—Capacity, 1 gallon;  
Each \$0.50



The top magazine is water and air tight, so can be used as a Feeder or Fountain. Adjustable for various feeds. Holds 2 quarts.

No. 18—Moe's Chick Feeder and Fountain....Each \$0.55

## CLEANABLE TOP FILL FOUNTAINS

Moe's original Top-Fill Fountain, with double walls which keep the water cool in summer and retard freezing in winter. Fills at the top and as easily cleaned as an ordinary pail. Feeds the water automatically, no valves or complicated parts. Heavy galvanized steel, with Square Pan.



No. 1—Capacity, 1 gallon.....Each \$1.65, postpaid

No. 2—Capacity, 2 gallons .....Each 2.65, postpaid

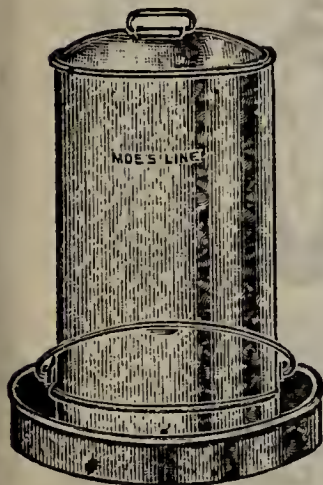
No. 4—Capacity, 4 gallons.....Each 3.15, postpaid

## CLEANABLE TOP FILL FOUNTAINS

Moe's Top-Fill Fountain, with double walls which keep the water cool in summer and retard freezing in winter. Fills at the top and as easily cleaned as an ordinary pail. Feeds the water automatically, no valves or complicated parts. Heavy galvanized steel, with Round Pan.

No. 33—Capacity, 2 gallons  
Each \$2.65

No. 34—Capacity, 4 gallons  
Each 3.15

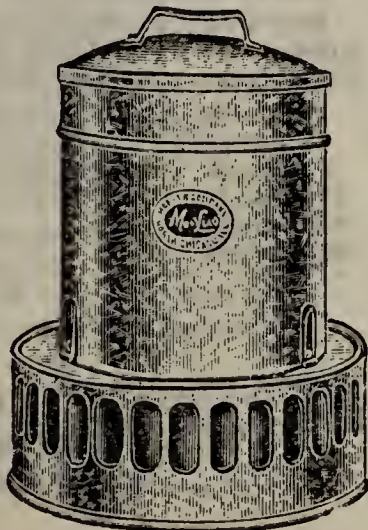


## PEERLESS CHICK FEEDER

For baby chicks and growing fowl, and suited for either large or small flocks. The hopper is adjustable up or down for different kinds of mash or feed. Thirty chicks can feed at one time and they cannot foul or waste the feed. Two sizes.

No. 192—Capacity 10 quarts  
Each \$1.60

No. 193—Capacity, 18 quarts  
Each \$2.10



## MOE'S LARGE CAPACITY FEEDERS

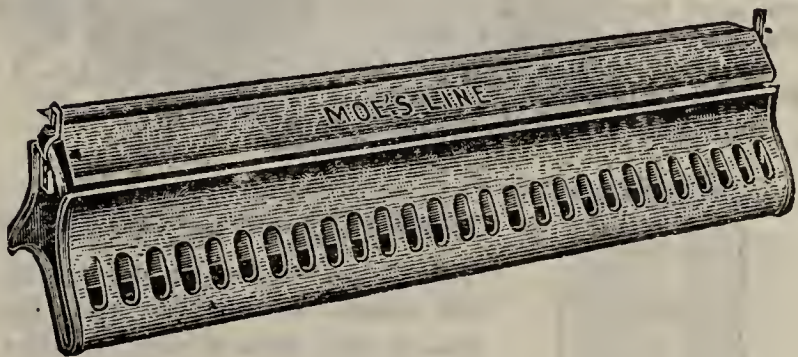


The finest and most popular feeders made, for either small or large flocks. Smooth feeder holes just the right size and shape, and in just the correct position to give the chickens easy access to the feed and yet prevent needless waste. Two sizes.

No. 140—Capacity, 10 quarts; length, 21 in.; 32  
feeder holes .....Each \$1.20

No. 141—Capacity, 17 quarts; length, 35 in.; 54  
feeder holes .....Each 1.75

## MOE'S TILTING TOP FEEDER



No. 141-T—The same as No. 141 (shown above), but has a Tilting or Swinging Top so that chickens cannot perch on it. Capacity, 17 quarts; length, 35 in.; 54 feeder holes .....Each \$1.95

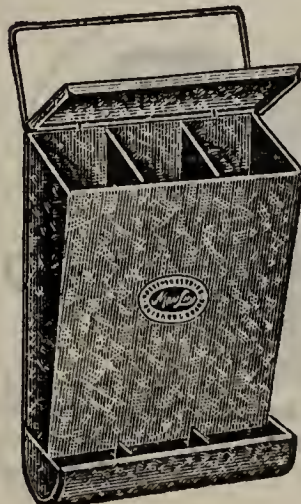
## GRIT AND SHELL BOXES

Economical and practical for feeding grit, shells, etc. Heavy galvanized steel, thoroughly well made, no solder used in their construction.

No. 45—Two-Compartment  
Each \$0.45

No. 9—Three-Compartment  
Each .85

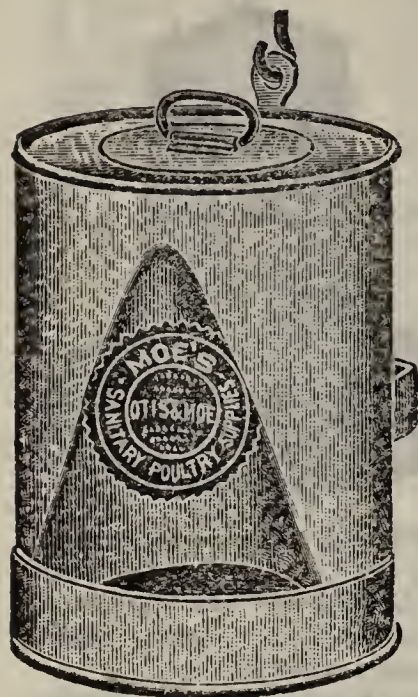
No. 90—Four-Compartment  
Each 1.20





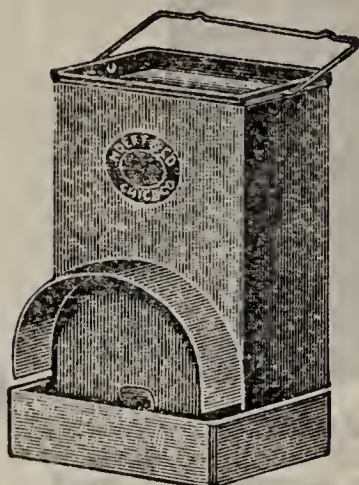
# POULTRY SUPPLIES

## WALL FOUNTAIN



No. 26 .....Each \$0.70

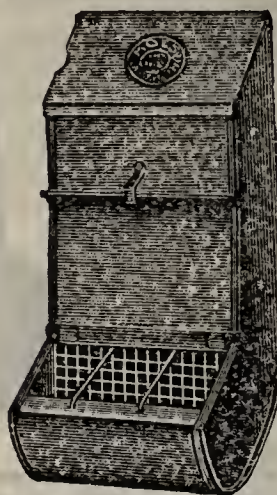
## DROP BOTTOM FOUNTAIN



Has a hinged drop bottom so it is easy to fill and keep clean. Wire handle, so it may be hung on the wall out of the litter.

No. 41—1 gal. Each \$1.15  
No. 42—2 gals. Each 1.50

## MOE'S DRY MASH HOPPERS



A strictly high quality hopper, properly designed. The curved bottom keeps the feed in easy reach, and the taper shape of the hopper prevents the feed from clogging. Height 19 inches.

Each  
No. 35—Width 8½ in.....\$1.50  
No. 36—Width 12 in..... 2.05  
No. 13—Width 18 in..... 2.35  
No. 37—Width 24 in..... 3.00

## MOE'S ECLIPSE FEEDERS



For chicks and growing stock. One-piece pan and top. No seams, rivets or solder used. Sliding Top, easy to fill and clean.

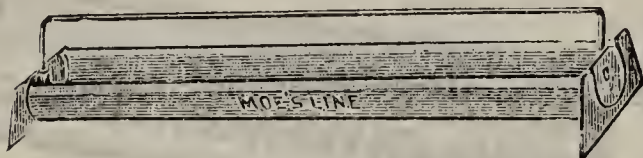
Galvanized Steel

No. 27—Length, 10 inches with 10 holes.....Each \$0.25  
No. 28—Length, 20 inches with 20 holes.....Each .40

Bright Tin (for Buttermilk)

No. 137—Length, 10 inches with 10 holes.....Each \$0.30  
No. 138—Length, 20 inches with 20 holes.....Each .45

## MOE'S DIXIE FEEDERS



The deep, half-round troughs have a turned-in flange to prevent waste. Easy to fill and clean.

The wire top guard keeps the chicks out, and is adjustable, so it can be raised as the chicks grow in size.

Galvanized Steel

No. 460—Length, 18 inches.....Each \$0.25  
No. 462—Length, 30 inches.....Each .40

## BABY CHICK FEEDERS

Round feeders for baby chicks. Also used for water and milk. Tops fit snugly, yet are easily removed for filling and cleaning.

No. 11—Galvanized, 8 holes; diameter, 6 inches....Each \$0.15  
No. 12—Galvanized, 12 holes; diameter, 8 inches Each .25



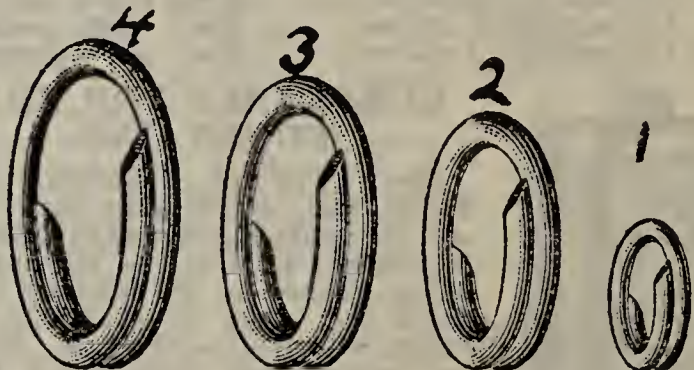
## MOE'S DOUBLE FEEDING TROUGHS



Galvanized steel. Feeder holes have smooth turned-over edges to prevent injury to the chicks. Sliding top.

No. 58—Length, 12 in. with 18 feeder holes....Each \$0.35  
No. 59—Length, 18 in. with 26 feeder holes....Each .50  
No. 60—Length, 24 in. with 36 feeder holes....Each .55  
No. 76—Length, 36 in. with 52 feeder holes....Each .75

## SPIRAL CELLULOID LEG BANDS



No. 1—For Baby Chicks.  
No. 2—For Leghorn Chickens.  
No. 3—For Rhode Island Reds or Rocks.  
No. 4—For Turkeys or Geese.

Best quality. Fast colors. Made in six sizes and ten colors: White, Black, Dark Blue, Light Blue, Red, Pink, Garnet, Green, Yellow, Purple.

12 bands.....\$0.15  
25 bands..... .25  
50 bands..... .40  
100 bands..... .65  
500 bands..... 3.00  
1000 bands..... 5.00

Postpaid.



## MASON JAR FOUNTAIN

Made of rust-resisting metal. No seams or solder, and fits Mason jars, sizes 1 pint, 1 quart and 2 quart.

No. 142 (Glass jar not included)  
Each \$0.10

## STAR FOUNTAINS

No seams. No loose parts. Made of rust resisting metal. Fits any standard Mason Fruit Jar.

No. 32 Star Fountain,  
Each 10c



No. 38—A popular and practical Punch. Makes a clean perforation.

Each \$0.15



No. 39—Moe's Ideal Punch. Works easily, cuts clean, and does not bruise the foot.

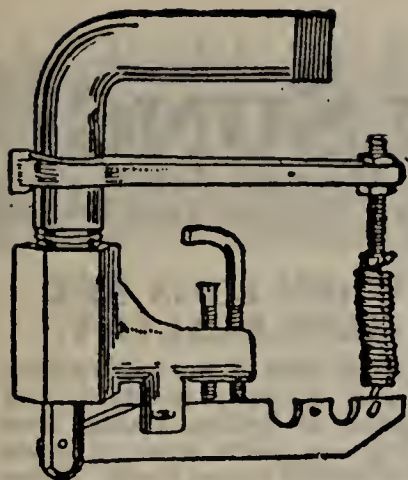
Each \$0.35



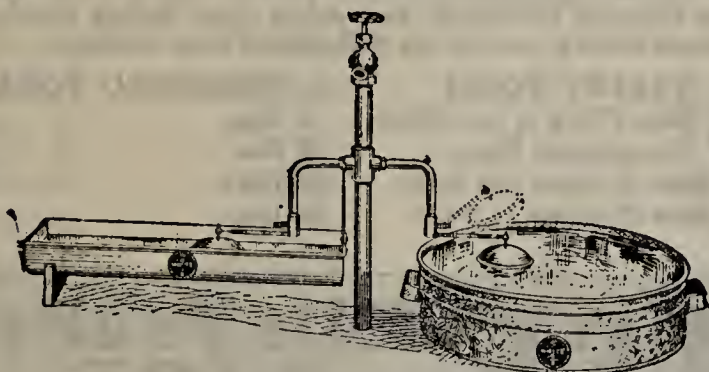
## POULTRY SUPPLIES

**"Guaranteed"  
Automatic Water  
Fountain**

Is the BIGGEST LABOR SAVER on the farm. Especially designed for poultry, can be attached to any water line, tank or even a barrel. Is operated by the gravity pressure of the drinking pan, supplies fresh water to your fowls automatically. Price, \$1.75 each.

**Gilt Edge Egg Scale**

Simple in construction and easy to operate, graduating by the ounce per dozen. Is universally used. Price, \$1.35, postpaid.

**Servall Float Fountain**

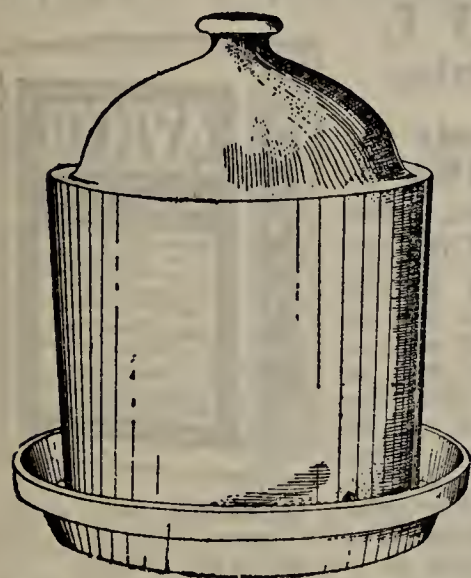
The above illustration shows two ways that the Servall fountain can be used.

Every part of this fountain is made of pure brass, also the float. The Watertite Valve is one of the good features of this fountain.

Made to fit standard 1/4-inch pipe.

This Servall Float Fountain will fill every requirement for STOCK water control such as is used on small dairies or a horse or cow, it has a running capacity of from 2 to 5 gallons of water per minute depending on the pressure.

The Servall Float Fountain will be prepaid to any address in the United States or Canada upon receipt of \$1.25.

**Sanitary  
Stone  
Fountain**

These are strong and well finished; made in two pieces. They probably keep the water cooler than the galvanized fountains, but are heavier to handle and more liable to break.

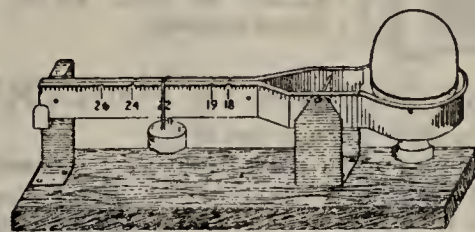
Price—1/2 gal., 65c;  
1 gal., 75c; 2 gal.,  
\$1.25.

Cannot be mailed.

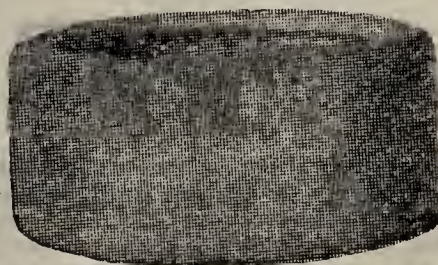
**CHAMPION EGG GRADING SCALE**

Improved type; grades with eggs in any position. Meets all requirements, grading pewee, pullet and standard eggs. Solid brass; will not get out of order; no loose parts to get lost.

Each \$1.75; postpaid \$1.85

**The White Line Egg Grader**

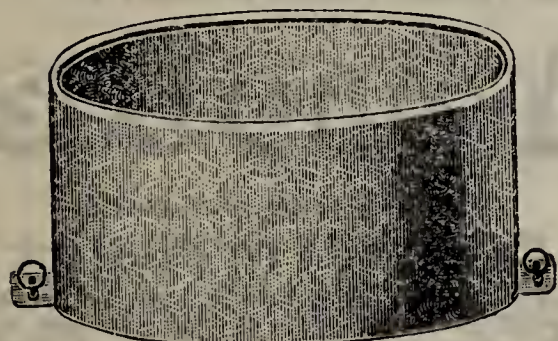
is the most favored of any egg grader on the market, first, because it is perfect in its balance and assures a Perfect grade, the swinging egg basket is a very attractive feature as the egg may be placed in the basket in any position and give you a correct weight. This grader weighs ten (10) grades, namely: 18, 19, 20, 21, 22, 23, 24, 25, 26 and 27 ounces to the dozen. Price, each, postpaid, \$1.85

**Earthenware Dishes**

Made especially for rabbits and small pets. Cannot tip over and the saving in feed soon pays for them.

Prices—6-inch.....15c  
Prices—8-inch.....25c

By Parcels Post add 8c each for safe packing. Weight about 2 lbs

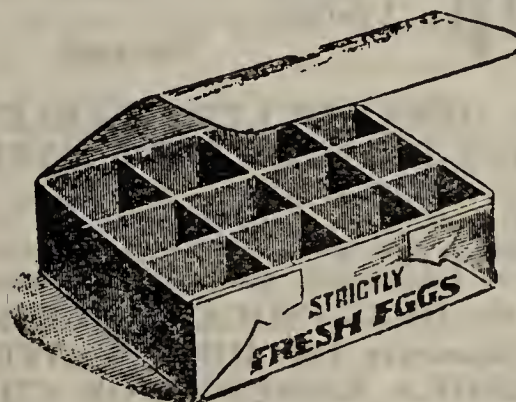
**Rabbit Dishes****MOE'S FEED AND WATER DISH**

Made of galvanized iron. Rolled in top prevents wasting. Dish held to the floor of hutch by simple locking device, easy to remove for cleaning. Impossible for stock to tip over.

No. 46—Each.....25c

**Poultry Pepper**

A good tonic and invigorator. Ground. Price, 1 lb., 35c, postpaid.

**Ideal Egg Box**

One dozen size, price per doz., 25c, postpaid; 100 for \$1.00 (not postpaid); 100 cartons when packed for shipping weight 14 lbs.





## PAN-A-MIN

Pan-A-Min has been known to poultry raisers for more than 30 years as Dr. Hess Poultry Pan-a-cea.

It is now a greatly improved product. Pan-A-Min is of high value to moulting hens, in egg production, in reducing chick mortality, in bone and feather growth and in maintaining health.

It does not take the place of feed and no feed can take the place of Pan-A-Min.

3 lbs., 65c; 7 lbs., \$1.25; 15 lbs., \$2.25; 25 lbs., \$3.50, postpaid. Guaranteed.

## FOR WORMS IN POULTRY

Dr. Hess Poultry Ver-mi-trol is a flock treatment. No individual handling of birds is necessary. It is simply given with the feed in two 10-day courses, three weeks apart, with Dr. Hess Poultry Pan-a-min fed regularly.

It is not drastic, does not throw hens or pullets off production and does not interfere with growth and development of young birds. It is palatable, all birds eat it readily.

As a preventive measure, to avoid worm infestation, a twice-a-year flock treatment, early summer and late fall, is strongly recommended.

4-lb. package, \$1.50, postpaid.



## Instant Louse Killer

Guaranteed

Kills lice on poultry, horses, cattle; sheep ticks; bugs on cucumber, squash and melon vines; cabbage worms; slugs on rose bushes, etc. Sold in sifting-top cans. Look for the word "Instant" before buying.

1-lb. packages, 30c; 2½-lb. packages, 60c.

## Wormoids

Large round worm infestation in poultry is a common condition. Many flocks are badly affected—yet the poultryman is not aware of it. The most common symptoms are general emaciation, wasting away or going light. If your flock is not in good health, it is a mighty good plan to look for intestinal worms.

Price, 50 Capsules, \$1.00, postpaid



## Dr. Hess Dip and Disinfectant

Small .....\$ .60  
Quarts ..... .75  
2-quarts ..... 1.25  
1 gallon ..... 2.00

Postpaid

## DR. HESS POULTRY TABLETS Formerly DR. HESS ROUP TABLETS

For Roup, Diphtheria, Chicken Pox and all catarrhal diseases. It has these distinctive features—it is anti-septic, slightly astringent, non-irritating and healing. 100-15 grain Tablets, 50c, postpaid. Guaranteed.

## DR. HESS CHICK TABLETS Formerly DR. HESS WHITE DIARRHEA REMEDY FOR CHICKS

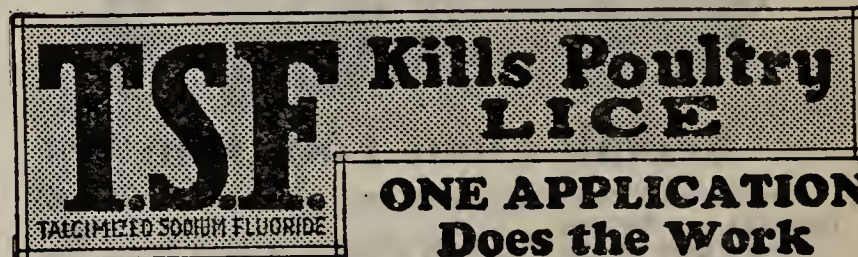
And all poultry affected with white diarrhea. Can be mixed with feed or put in drinking water. Pkg. 50c, postpaid. Guaranteed.



## GETS THE EGGS WHEN EGGS ARE SCARCE. KEEPS HENS HEALTHY.

This famous tonic GETS THE EGGS no matter how cold or wet the weather. Easily given in the feed, and beneficial to all poultry. Instead of feeding loafing hens all winter, you can now get big egg yields when eggs are scarce and high priced. Starts pullets laying early. Helps hens through the moult and starts them laying regularly. It must satisfy you, or we will refund your money.

| TABLET FORM                                   | POWDERED FORM   |
|---|-----------------|
| 50c Size (This is the Trial Guaranteed Size). | 3 lbs..... \$5  |
| \$1 Size (3 times 50c Size)                   | 10 lbs.....\$10 |
| \$5 Size (6 times \$1 Size)                   | 25 lbs.....\$20 |
|   | 50 lbs.....\$35 |



T. S. F. kills both old and young lice, including the lice that hatch from the eggs present at time of treatment. Easily given by pinch method, dip or dusting. Specially processed. Adheres to the plumage. Non-Irritating. One application lasts an entire season. Packed in special shaker-top cans with Government's directions for using.

35c Size (enough for 50 birds): Twice the 35c Size, 60c; Five times the 60c Size (Economy Size), \$2.50.

## AVICOL Stops Chicks Dying

The Wonder Remedy for WHITE DIARRHEA or Cholera in chicks, and Black-Head in Turkeys Does work in 48 hours

White Diarrhea kills half of nearly every hatch of chicks. The strange thing is that so many people think this loss can't be stopped. But it can be stopped, without extra work, without troublesome dosing, and at almost no cost. For years, thousands have saved their sick chicks and raised nearly every chick in every hatch, by keeping Avicol in the drinking water.

Avicol is a bowel antiseptic. It makes chickens healthy and keeps them healthy. Costs less than a cent a day for an ordinary flock. Guaranteed. Price 50c; Large Size (Almost 3 times as much) \$1.



## Group-Over

(Formerly Called Roup-Over)

## For Colds in Poultry

Use this famous remedy at the very first symptom of colds in your flock. It clears the air passages and brings relief with magic quickness. Easily used, both for individual treatment and in the drinking water for flock prevention. Leading poultry raisers everywhere now use Group-Over, the over-night remedy. It's so easy! So sure! There's no other remedy like it—nothing "just as good." Have a bottle ready to use when you need it. Price 50c; Large Size (3 times the 50c size), \$1.00.





NUMBER OF PLANTS PER ACRE AT VARIOUS DISTANCES

| Distance,<br>Inches. | Plants.   | Distance,<br>Inches. | Plants. | Distance,<br>Feet. | Plants. | Distance,<br>Feet. | Plants |
|----------------------|-----------|----------------------|---------|--------------------|---------|--------------------|--------|
| 1x 1                 | 6,272,640 | 10x48                | 13068   | 4x 5               | 2178    | 9x10               | 484    |
| 1x 3                 | 2,090,880 | 15x15                | 27878   | 4x 6               | 1815    | 9x11               | 440    |
| 1x 4                 | 1,568,160 | 15x30                | 13939   | 4x 7               | 1556    | 9x12               | 403    |
| 1x 5                 | 1,254,528 | 15x36                | 11616   | 5x 5               | 1742    | 10x10              | 435    |
| 2x 2                 | 1,568,160 | 18x36                | 9680    | 5x 6               | 1452    | 10x12              | 363    |
| 2x 3                 | 1,045,440 | 18x48                | 7260    | 5x 7               | 1244    | 10x15              | 290    |
| 2x 4                 | 784,080   |                      |         | 5x 8               | 1089    | 10x18              | 242    |
|                      |           | Feet.                |         |                    |         |                    |        |
| 2x 5                 | 627,264   |                      |         | 5x 9               | 968     | 10x20              | 217    |
| 3x 3                 | 696,960   | 1x 1                 | 43560   | 6x 9               | 1210    | 12x12              | 302    |
| 3x 4                 | 522,720   | 1x 2                 | 21780   | 6x 7               | 1037    | 12x15              | 242    |
| 3x 5                 | 418,176   | 1x 3                 | 14520   | 6x 8               | 907     | 12x20              | 181    |
| 4x 4                 | 392,040   | 1x 4                 | 10890   | 6x 9               | 806     | 15x15              | 193    |
| 4x 5                 | 313,632   | 1x 5                 | 8712    | 6x10               | 726     | 15x18              | 161    |
| 5x 5                 | 250,905   | 2x 2                 | 10890   | 7x 7               | 888     | 15x20              | 145    |
| 6x 6                 | 174,240   | 2x 3                 | 7260    | 7x 8               | 777     | 18x18              | 134    |
| 7x 7                 | 128,012   | 2x 4                 | 5445    | 7x 9               | 691     | 18x20              | 121    |
| 8x 8                 | 98,010    | 2x 5                 | 4356    | 7x10               | 622     | 18x24              | 100    |
| 9x 9                 | 77,440    | 3x 3                 | 4840    | 8x 8               | 680     | 20x20              | 108    |
| 10x10                | 62,726    | 3x 4                 | 3630    | 8x 9               | 605     | 20x24              | 90     |
| 10x20                | 31,363    | 3x 5                 | 2904    | 8x10               | 544     | 20x30              | 72     |
| 10x24                | 26,136    | 3x 6                 | 2420    | 8x11               | 495     | 30x24              | 60     |
| 10x30                | 20,908    | 3x 7                 | 2074    | 8x12               | 453     | 30x30              | 48     |
| 10x36                | 16,424    | 4x 4                 | 2722    | 9x 9               | 537     | 30x36              | 40     |

GRAIN AND FORAGE CROPS

|  | Pounds<br>per acre | Weight<br>per bu. |
|--|--------------------|-------------------|
| Alfalfa .....  | 15-25              | 60                |
| Barley, for grain .....                                      | 100                | 48                |
| Barley, for forage .....                                     | 140                | 48                |
| Beans, Soy or Soja .....                                     | 60-75              | 60                |
| Buckwheat .....  | 50-75              | 48                |
| Clover, Alsike .....   | 6-8                | 60                |
| Clover, Crimson .....  | 18-20              | 60                |
| Clover, Mammoth Red .....                                    | 10-12              | 60                |
| Clover, Medium Red .....                                     | 10-12              | 60                |
| Clover, White Sweet .....                                    | 20                 | 60                |
| Corn, Flint for grain .....                                  | 15                 | 56                |
| Corn, Dent for silage .....                                  | 20-30              | 56                |
| Millet, Golden .....   | 50                 | 50                |
| Millet, Hungarian .....                                      | 50                 | 48                |
| Millet, Japanese .....                                       | 15-25              | 35                |
| Oats for grain .....   | 50-60              | 32                |
| Oats for forage .....  | 100                | 32                |
| Peas, Field, Broadcast .....                                 | 150-160            | 60                |
| Peas with Oats .....   | 90-100             | 60                |
| Rye for grain .....  | 60-75              | 56                |
| Rye for forage .....   | 80-100             | 56                |
| Rape, Dwarf Essex, in drills.....                            | 4-6                | 50                |
| Rape, Dwarf Essex, broadcast .....                           | 8-10               | 50                |
| Sudan Grass, in drills .....                                 | 4-6                | 40                |
| Sudan Grass, broadcast .....                                 | 18-20              | 40                |
| Vetch, Spring, with one bushel small<br>grain .....          | 40-60              | 60                |
| Vetch, Winter or Hairy, with one<br>bushel small grain ..... | 40-60              | 60                |
| Wheat .....  | 90-120             | 60                |

USUAL DISTANCES FOR PLANTING  
VEGETABLES—(Bailey)

Asparagus, rows, 3 to 4 feet apart, 1 to 2 feet apart in rows.

Beans, bush, 2 to 3 feet apart, 1 foot apart in rows.

Beans, pole, 3 to 4 feet each way.

Beets, early, in drills 12 to 18 inches apart.

Beets, late, in drills 2 to 3 feet apart.

Cabbage, early, 16x18 inches to 18x30 inches.

Cabbage, late, 2x3 feet to 2½x3½ feet.

Carrots, in drills 1 to 2 feet apart.

Cauliflower, 2x2 feet to 2x3 feet apart.

Celery, rows 3 to 4 feet apart, 6 to 9 inches in row.

Corn, sweet, rows 3 to 3½ feet apart, 9 inches to 2 feet in rows.

Cucumber, 4 to 5 feet each way.

Egg-plant, 3x3 feet.

Lettuce, 1x1½ feet or 2 feet.

Melon, Musk, 5 to 6 feet each way.

Melon, Water, 7 to 8 feet each way.

Onions, in drills from 14 to 20 inches apart.

Parsnips, in drills 18 inches to 3 feet apart.

Peas, in drills early kinds, usually in double rows, from 6 to 9 inches apart, late, in single rows 2 to 3 feet apart

Pepper, 15 to 18 inches by 2 to 2½ feet.

Potatoes, 10 to 18 inches by 2½ to 3 feet.

Pumpkins, 8 to 10 feet each way.

Radish, in drills, 10 to 18 inches apart.

Rhubarb, 2 to 4 feet by 4 feet.

Salsify, in drills 1½ to 2 feet apart.

Spinach, in drills 12 to 18 inches apart.

Squash, 3 to 4 feet by 4 feet.

Sweet Potatoes, 2 feet by 3 to 4 feet.

Tomato, 4 feet by 4 to 5 feet.

Turnip, in drills 1½ to 2½ feet apart.

Everybody KNOWS  
BUTZER'S SEEDS Grow



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| Boxwood               |          | Egg Scales                  | 91       | Lavatera                     | 45    |
| Brachycome            | 39       | Emmer (Speltz)              | 62       | Lavender                     | 33    |
| Briza                 | 39       | Endive                      | 7        | Lawn Grass                   | 67    |
| Broccoli              | 6        | Eschscholtzia               | 43       | Lawn Sprinklers              | 82    |
| Browalia              | 39       | Evergreens                  | 84       | Leg Bands                    | 92    |
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| C                     |          | Fennel                      | 33       | Lettuce                      | 16-17 |
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| Calendula             | 40       | Fertilizer                  | 87       | Lilies                       | 66    |
| Calla Lily            | 66       | Filberts                    | 74       | Lime                         | 87    |
| Calliopsis            | 40       | Fish Oil Soap               | 85       | Lime and Sulphur             | 84    |
| California Poppy      | 43       | Flower Seed                 | 37       | Linum                        | 45    |
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| Candytuft             | 40       | Forty-Three                 | 85       | M                            |       |
| Canna                 | 40       | Formaldehyde                | 85       | Magotite                     | 85    |
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MATURITY TABLE

|                             | No. of Days. |                          | No. of Days. |                      | No. of Days. |
|-----------------------------|--------------|--------------------------|--------------|----------------------|--------------|
| Beans .....                 | 40 to 90     | Kale .....               | 100 to 130   | Peas .....           | 50 to 100    |
| Beets .....                 | 50 to 100    | Kohl Rabi .....          | 80 to 90     | Peppers .....        | 120 to 140   |
| Cabbages .....              | 80 to 120    | Lettuce .....            | 40 to 65     | Pumpkins .....       | 100 to 120   |
| Cauliflowers .....          | 100 to 120   | Melons .....             | 75 to 90     | Salsify .....        | 120 to 160   |
| Carrots .....               | 60 to 100    | Mangel Wurzels .....     | 140 to 150   | Spinach .....        | 30 to 40     |
| Celery .....                | 120 to 140   | Okra .....               | 90 to 100    | Squash, Summer ..... | 55 to 60     |
| Sweet Corn, table use ..... | 65 to 80     | Onions for green .....   | 60 to 70     | Squash, Winter ..... | 100 to 125   |
| Cucumbers .....             | 45 to 60     | Onions for storage ..... | 120 to 160   | Tomatoes .....       | 90 to 110    |
| Egg Plants .....            | 140 to 150   | Parsnips .....           | 120 to 140   | Turnips .....        | 45 to 90     |
| Endives .....               | 50 to 70     |                          |              |                      |              |

GRASS SEEDS

|                               | Pounds Weight<br>per acre per bu. |   | Pounds Weight<br>per acre per bu. |
|-------------------------------|-----------------------------------|---|-----------------------------------|
| Awnless Brome .....           | 18-25 14                          | Rye Grass, Italian .....                          | 60 22                             |
| Blue Grass, Canada .....      | 30-35 14                          | Rye Grass, Pacey's .....                          | 50 28                             |
| Blue Grass, Kentucky .....    | 20-25 14                          | Red Top, Recleaned seed, Worcester<br>Brand ..... | 40-50 36                          |
| Creeping Bent .....           | 50 14                             | Red Top, Unhulled seed .....                      | 70 14                             |
| Crested Dogstail .....        | 30 28                             | Rhode Island Bent .....                           | 20-40 14                          |
| Fescue, Hard .....            | 30 16                             | Rough Stalk Meadow .....                          | 30-35 26                          |
| Fescue, Meadow .....          | 24 16                             | Sweet Vernal, use only in mixture.                |                                   |
| Fescue, Red or Creeping ..... | 30 16                             | Tall Meadow Oat .....                             | 45 12                             |
| Fescue, Sheep's .....         | 40 16                             | Timothy .....                                     | 12-25 45                          |
| Fescue, Various Leaved .....  | 20-25 15                          | Lawn Seed Mixture, Shady Spot .....               | 100-125 20                        |
| Meadow Foxtail .....          | 30 8                              | Lawn Seed Mixture, Worcester Brand.....           | 100-125 25                        |
| Orchard Grass .....           | 20-25 14                          | Wood Meadow .....                                 | 25-30 19                          |
| Rye Grass, English .....      | 50 28                             |   |                                   |



**BUTZER'S**



**SEEDS**

THE KIND THAT GROW  
"YOU CAN'T KEEP THEM IN THE GROUND"